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OM protein - protein search, using sw model

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(without alignments)
368.289 Million cell updates/sec

Perfect score: 1204
Sequence: 1 MGMTMLVTPALLGLGMVY.....PTIQAPGRASPEPKTKRQR 223

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0
Maximum DB seq length: 200000000

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Maximum Match 100%
Listing first 1500 summaries

Database :
1: Issued Patents_AA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
2	1181	98.1	227	2	US-09-208-718-3
3	1177	97.8	227	2	US-09-621-976-8
4	1177	97.8	227	2	US-09-513-999C-8
5	1177	97.8	227	2	US-09-471-276-8
6	235.5	19.6	187	2	US-09-492-308A-7
7	231	19.2	152	2	US-09-408-718-6
8	225	18.7	187	3	US-10-362-642B-1
9	222.5	18.5	187	3	US-09-654-281B-4
10	222	18.4	220	2	US-09-654-281B-5
11	218.5	18.1	186	2	US-09-492-308A-8
12	213	17.7	187	2	US-09-654-281B-3
13	211	17.5	187	2	US-09-654-281B-2
14	210.5	17.5	187	1	US-08-403-378B-4
15	205	17.0	187	1	US-08-403-378B-15
16	205	17.0	187	3	US-10-362-642B-2
17	164	13.6	175	2	US-09-060-726A-2
18	164	13.6	175	2	US-09-845-849A-2
19	161.5	13.4	141	2	US-09-845-849A-2
20	157	13.0	272	2	US-09-248-796A-16385
21	148	12.3	181	2	US-09-492-308A-2
22	148	12.3	181	2	US-09-654-281B-6
23	142.5	11.8	177	2	US-09-492-308A-23
24	139	11.5	152	1	US-07-644-372-2
25	137.5	11.4	120	1	US-09-270-767-33653
26	137.5	11.4	120	2	US-09-270-767-33653
27	137.5	11.4	176	2	US-09-654-281B-7
28	137.5	11.4	177	2	US-09-492-308A-5

29	137.5	11.4	177	2	US-09-492-308A-22	Sequence 22, Appl
30	131.5	10.9	177	2	US-09-492-308A-21	Sequence 21, Appl
31	130.5	10.8	177	2	US-09-492-308A-20	Sequence 20, Appl
32	122.5	10.2	219	2	US-09-654-281B-8	Sequence 8, Appl
33	102.5	8.5	115	2	US-09-845-849A-8	Sequence 8, Appl
34	99.5	8.3	132	2	US-09-270-767-57507	Sequence 57507, A
35	98.5	8.3	258	2	US-09-270-767-42220	Sequence 42220, A
36	98.5	8.2	112	2	US-09-302-540-12693	Sequence 12693, A
37	96.5	8.0	154	2	US-09-060-726A-6	Sequence 6, Appl
38	96.5	8.0	154	2	US-09-438-185A-879	Sequence 879, App
39	93	7.7	229	2	US-09-489-039A-7534	Sequence 7534, Ap
40	92.5	7.7	172	2	US-09-302-331B-10	Sequence 10, Appl
41	91.5	7.6	176	2	US-09-302-331B-6	Sequence 6, Appl
42	89.5	7.4	176	2	US-09-050-739-50	Sequence 50, Appl
43	89.5	7.4	176	2	US-09-804-980-50	Sequence 50, Appl
44	88.5	7.4	174	2	US-09-302-331B-8	Sequence 8, Appl
45	88	7.3	167	2	US-09-302-331B-4	Sequence 4, Appl
46	87	7.2	165	2	US-09-302-331B-12	Sequence 12, Appl
47	85	7.1	165	2	US-09-302-331B-14	Sequence 14, Appl
48	83	6.9	591	2	US-09-949-016-11666	Sequence 11666, A
49	81.5	6.8	167	2	US-09-605-703B-1044	Sequence 1044, Ap
50	81	6.7	321	2	US-09-605-703B-1044	Sequence 1044, Ap
51	80.5	6.7	321	2	US-09-328-352-7627	Sequence 7627, Ap
52	78	6.5	875	1	US-08-785-241-5	Sequence 5, Appl
53	77.5	6.4	232	1	US-08-704-744-80	Sequence 80, Appl
54	77	6.4	110	2	US-09-198-452A-943	Sequence 943, App
55	77	6.4	579	2	US-09-173-151A-2	Sequence 2, Appl
56	76.5	6.4	168	2	US-09-302-331B-16	Sequence 16, Appl
57	76.5	6.4	168	2	US-09-714-767A-9	Sequence 9, Appl
58	76.5	6.4	321	2	US-09-166-350-15	Sequence 15, Appl
59	75.5	6.3	159	2	US-09-689-039A-11170	Sequence 13170, A
60	75.5	6.3	1049	2	US-08-817-090B-2	Sequence 2, Appl
61	75.5	6.3	1050	1	US-08-817-090B-4	Sequence 4, Appl
62	75.5	6.3	1101	1	US-08-916-917-14	Sequence 14, Appl
63	75.5	6.3	1101	2	US-09-225-170-14	Sequence 14, Appl
64	75	6.2	299	2	US-09-134-001C-4167	Sequence 4167, Ap
65	75	6.2	410	2	US-09-107-532A-6066	Sequence 6066, Ap
66	75	6.2	572	2	US-09-302-540-16012	Sequence 16012, A
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68	74.5	6.2	236	2	US-09-315-926A-79	Sequence 79, Appl
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74	74	6.1	233	2	US-09-705-686-25	Sequence 25, Appl
75	74	6.1	233	2	US-09-705-392A-25	Sequence 25, Appl
76	74	6.1	233	2	US-09-705-398-25	Sequence 25, Appl
77	74	6.1	233	5	PCR-US93-07832-25	Sequence 25, Appl
78	74	6.1	548	2	US-09-509-744-3	Sequence 3, Appl
79	74	6.1	2038	3	US-10-433-794-18	Sequence 18, Appl
80	73.5	6.1	212	1	US-08-916-770-3	Sequence 3, Appl
81	73.5	6.1	212	1	US-09-102-593-3	Sequence 3, Appl
82	73.5	6.1	212	2	US-09-293-724-3	Sequence 3, Appl
83	73.5	6.1	244	2	US-09-328-352-6433	Sequence 6433, Ap
84	73.5	6.1	503	2	US-08-999-688A-6	Sequence 6, Appl
85	73.5	6.1	503	2	US-09-944-807-4	Sequence 4, Appl
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88	72.5	6.0	327	2	US-09-385-219A-58	Sequence 58, Appl
89	72.5	6.0	1102	1	US-08-916-917-4	Sequence 4, Appl
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99	72.5	6.0	1211	2	US-09-167-206-14	Sequence 14, Appl
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			421	1	US-08-576-626A-53	Sequence 53, Appl

102	71.5	5.9	575	2	US-08-922-865-2	Sequence 2, Appl1	175	67	5.6	214	1	US-07-934-373C-24	Sequence 24, Appl1
103	71.5	5.9	575	2	US-09-510-949-2	Sequence 2, Appl1	176	67	5.6	214	2	US-08-437-642B-24	Sequence 24, Appl1
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105	71.5	5.9	725	2	US-09-303-518D-672	Sequence 672, App	178	67	5.6	214	2	US-09-705-686-24	Sequence 24, Appl1
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107	71	5.9	184	2	US-09-270-767-45190	Sequence 45190, A	180	67	5.6	214	2	US-09-705-398-24	Sequence 24, Appl1
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110	71	5.9	757	2	US-09-252-991A-20231	Sequence 20231, A	183	67	5.6	244	2	US-08-813-323C-10	Sequence 10, Appl1
111	71	5.9	1935	2	US-09-949-016-10970	Sequence 10970, A	184	67	5.6	347	2	US-09-268-544B-38	Sequence 38, Appl1
112	70.5	5.9	71	2	US-09-492-308A-15	Sequence 15, Appl1	185	67	5.6	347	2	US-09-950-902-4	Sequence 4, Appl1
113	70.5	5.9	394	2	US-09-489-039A-8445	Sequence 8445, Ap	186	67	5.6	372	1	US-08-403-634-2	Sequence 2, Appl1
114	70.5	5.9	998	2	US-09-252-991A-30462	Sequence 30462, A	187	67	5.6	372	2	US-08-403-634-30	Sequence 30, Appl1
115	70	5.8	438	2	US-09-950-902-2	Sequence 2, Appl1	188	67	5.6	372	2	US-08-913-441B-2	Sequence 2, Appl1
116	70	5.8	491	2	US-09-248-796A-14421	Sequence 14421, A	189	67	5.6	372	2	US-08-913-441B-30	Sequence 30, Appl1
117	69.5	5.8	192	2	US-09-248-796A-15447	Sequence 15447, A	190	67	5.6	372	2	US-09-571-985C-2	Sequence 2, Appl1
118	69.5	5.8	438	2	US-08-482-934A-12	Sequence 12, Appl1	191	67	5.6	372	2	US-09-571-985C-30	Sequence 30, Appl1
119	69.5	5.8	438	2	US-08-182-045-12	Sequence 12, Appl1	192	67	5.6	372	2	US-09-771-161A-203	Sequence 203, App
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122	69	5.7	212	1	US-08-462-169B-21	Sequence 21, Appl1	195	67	5.6	393	2	US-09-949-016-11708	Sequence 11708, A
123	69	5.7	212	2	US-09-103-079-21	Sequence 21, Appl1	196	67	5.6	412	2	US-09-402-532-6	Sequence 6, Appl1
124	69	5.7	212	2	US-09-425-021-21	Sequence 21, Appl1	204	67	5.6	430	2	US-09-902-540-13244	Sequence 13244, A
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126	69	5.7	212	2	US-09-169-747-2	Sequence 2, Appl1	206	67	5.6	465	2	US-09-720-318A-12	Sequence 12, Appl1
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128	69	5.7	214	1	US-07-934-373C-39	Sequence 39, Appl1	208	67	5.6	543	2	US-08-349-357-2	Sequence 2, Appl1
129	69	5.7	214	2	US-08-437-642B-39	Sequence 39, Appl1	209	67	5.6	556	1	US-08-505-377-1	Sequence 1, Appl1
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131	69	5.7	361	2	US-09-543-681A-5099	Sequence 5099, Ap	211	67	5.6	556	2	US-09-055-210-1	Sequence 1, Appl1
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133	69	5.7	773	2	US-09-585-858-35	Sequence 35, Appl1	213	67	5.6	567	2	US-09-645-926A-7	Sequence 7, Appl1
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135	69	5.7	1045	2	US-10-104-047-2830	Sequence 2830, Ap	215	67	5.6	568	2	US-09-949-016-6339	Sequence 6339, Ap
136	69	5.7	1064	2	US-09-626-301-4	Sequence 4, Appl1	216	67	5.6	568	2	US-08-813-323C-2	Sequence 2, Appl1
137	68.5	5.7	343	2	US-09-360-376-17	Sequence 17, Appl1	217	67	5.6	612	1	US-09-949-016-7992	Sequence 7992, Ap
138	68.5	5.7	472	1	US-08-303-905B-14	Sequence 14, Appl1	218	67	5.6	840	2	US-08-446-794A-4	Sequence 4, Appl1
139	68.5	5.7	551	2	US-09-489-039A-14227	Sequence 14227, A	219	66.5	5.5	180	2	US-09-698-341-46	Sequence 46, Appl1
140	68.5	5.7	605	2	US-09-432-496-2	Sequence 14227, A	220	66.5	5.5	269	2	US-09-531-056A-14	Sequence 14, Appl1
141	68.5	5.7	605	2	US-09-432-496-2	Sequence 2, Appl1	221	66.5	5.5	285	2	US-09-289-349-12	Sequence 12, Appl1
142	68.5	5.7	615	2	US-09-632-616-2	Sequence 2, Appl1	222	66.5	5.5	328	2	US-09-531-056A-13	Sequence 13, Appl1
143	68	5.6	214	1	US-08-425-763-1	Sequence 1, Appl1	223	66.5	5.5	331	2	US-09-531-056A-12	Sequence 12, Appl1
144	68	5.6	214	2	US-08-811-757-1	Sequence 1, Appl1	224	66.5	5.5	398	2	US-09-489-039A-10213	Sequence 2, Appl1
145	68	5.6	214	2	US-09-349-230-1	Sequence 1, Appl1	225	66.5	5.5	451	2	US-08-878-177-2	Sequence 2, Appl1
146	68	5.6	229	2	US-09-045-973-7	Sequence 7, Appl1	226	66.5	5.5	477	2	US-09-902-540-13529	Sequence 12529, A
147	68	5.6	233	2	US-08-030-175-43	Sequence 43, Appl1	227	66.5	5.5	514	2	US-09-252-991A-8208	Sequence 28208, A
148	68	5.6	259	2	US-09-252-991A-31123	Sequence 31123, A	228	66.5	5.5	660	2	US-09-252-991A-32206	Sequence 32206, A
149	68	5.6	474	1	US-08-282-197C-58	Sequence 58, Appl1	229	66.5	5.5	725	2	US-09-303-518D-666	Sequence 666, App
150	68	5.6	475	2	US-09-054-272-40	Sequence 40, Appl1	230	66.5	5.5	1008	2	US-09-252-991A-29419	Sequence 29419, A
151	68	5.6	485	3	US-09-277-401B-9	Sequence 9, Appl1	231	66	5.5	114	2	US-09-845-849A-5	Sequence 5, Appl1
152	68	5.6	585	2	US-09-462-951B-1	Sequence 1, Appl1	232	66	5.5	233	2	US-09-252-991A-32770	Sequence 32770, A
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156	68	5.6	1697	2	US-10-037-417-68	Sequence 68, Appl1	236	66	5.5	680	2	US-09-902-540-16598	Sequence 16598, A
157	68	5.6	1723	2	US-10-037-417-18	Sequence 18, Appl1	237	66	5.5	735	2	US-09-902-540-13533	Sequence 13533, A
158	68	5.6	2476	1	US-08-276-967-2	Sequence 2, Appl1	238	66	5.5	738	2	US-09-949-016-9608	Sequence 9608, Ap
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160	67.5	5.6	309	2	US-09-830-433A-50	Sequence 50, Appl1	240	66	5.5	746	2	US-09-854-133-185	Sequence 185, App
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162	67.5	5.6	472	2	US-09-088-641-4	Sequence 4, Appl1	242	66	5.5	1467	2	US-09-134-000C-6740	Sequence 6740, Ap
163	67.5	5.6	512	1	US-08-173-508-4	Sequence 4, Appl1	243	66	5.5	2089	1	US-08-418-893D-23	Sequence 23, Appl1
164	67.5	5.6	512	1	US-08-265-310-4	Sequence 4, Appl1	244	66	5.5	2089	1	US-08-418-893D-24	Sequence 24, Appl1
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167	67.5	5.6	596	5	PCT-US93-00869-8	Sequence 8, Appl1	247	65.5	5.4	279	2	US-09-318-793A-5	Sequence 5, Appl1
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173	67	5.6	158	2	US-08-411-768B-5	Sequence 5, Appl1	253	65.5	5.4	427	2	US-10-179-784-3	Sequence 3, Appl1
174	67	5.6	207	2	US-08-813-323C-6	Sequence 6, Appl1	254	65.5	5.4	454	2	US-09-252-991A-28716	Sequence 28716, A

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256	65.5	5.4	539	2	US-09-691-344A-6	Sequence 6, Appli	329	64	5.3	180	2	US-09-698-341-36	Sequence 36, Appli
257	65.5	5.4	579	2	US-10-104-047-3176	Sequence 3176, Ap	330	64	5.3	180	2	US-09-698-341-37	Sequence 37, Appli
258	65.5	5.4	586	2	US-09-691-344A-4	Sequence 4, Appli	331	64	5.3	180	2	US-09-698-341-38	Sequence 38, Appli
259	65.5	5.4	587	2	US-09-107-532A-6405	Sequence 6405, Ap	332	64	5.3	180	2	US-09-698-341-39	Sequence 39, Appli
260	65.5	5.4	706	2	US-09-252-991A-24766	Sequence 24766, A	333	64	5.3	180	2	US-09-698-341-40	Sequence 40, Appli
261	65.5	5.4	828	2	US-09-248-796A-20746	Sequence 20746, A	334	64	5.3	180	2	US-09-698-341-41	Sequence 41, Appli
262	65.5	5.4	180	2	US-09-698-341-44	Sequence 44, Appli	335	64	5.3	180	2	US-09-698-341-42	Sequence 42, Appli
263	65	5.4	364	2	US-09-489-039A-12968	Sequence 12968, A	336	64	5.3	180	2	US-09-698-341-43	Sequence 43, Appli
264	65	5.4	445	2	US-09-252-991A-18993	Sequence 18993, A	337	64	5.3	180	2	US-09-698-341-44	Sequence 44, Appli
265	65	5.4	443	2	US-09-984-880-2	Sequence 2, Appli	338	64	5.3	180	2	US-09-698-341-45	Sequence 45, Appli
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268	65	5.4	518	2	US-09-404-008-2	Sequence 2, Appli	341	64	5.3	214	1	US-07-934-373C-40	Sequence 40, Appli
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272	65	5.4	749	2	US-09-949-016-10080	Sequence 10080, A	345	64	5.3	214	2	US-09-037-171A-2	Sequence 2, Appli
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280	65	5.4	1434	1	US-08-554-406-10	Sequence 10, Appli	353	64	5.3	237	2	US-09-097-171A-10	Sequence 10, Appli
281	65	5.4	1434	2	US-08-656-055-10	Sequence 10, Appli	354	64	5.3	237	2	US-09-422-12B-2	Sequence 2, Appli
282	65	5.4	1434	2	US-08-954-668-10	Sequence 10, Appli	355	64	5.3	237	2	US-09-607-756-2	Sequence 2, Appli
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287	65	5.4	1434	2	US-08-916-140-10	Sequence 10, Appli	360	64	5.3	255	2	US-09-134-001C-4466	Sequence 4466, Ap
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296	65	5.4	1447	2	US-08-807-007-6	Sequence 6, Appli	374	64	5.3	778	1	US-08-906-925-5	Sequence 5, Appli
297	65	5.4	1447	2	US-09-754-032-19	Sequence 19, Appli	375	64	5.3	857	2	US-09-252-991A-31764	Sequence 31764, A
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305	64.5	5.4	322	2	US-10-270-878-45	Sequence 45, Appli	383	64	5.3	1300	2	US-09-248-796A-18983	Sequence 18983, A
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309	64.5	5.4	360	2	US-09-252-991A-21624	Sequence 21624, A	387	64	5.3	1300	2	US-09-248-796A-18983	Sequence 18983, A
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313	64.5	5.4	501	2	US-09-298-404-3	Sequence 3, Appli	391	64	5.3	1300	2	US-09-248-796A-18983	Sequence 18983, A
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317	64.5	5.4	554	2	US-09-438-185A-124	Sequence 124, App	395	64	5.3	1300	2	US-09-248-796A-18983	Sequence 18983, A
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326	64.5	5.4	1014	2	US-09-344-510B-3	Sequence 3, Appli							
327	64.5	5.4	1172	2	US-09-328-352-6071	Sequence 6071, Ap							

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402	63.5	5.3	503	2	US-09-874-628-10	Sequence 10, Appl	475	62.5	5.2	214	2	US-09-041-889-11	Sequence 11, Appl
403	63.5	5.3	503	2	US-09-267-9630-10	Sequence 10, Appl	476	62.5	5.2	214	2	US-08-837-058-11	Sequence 11, Appl
404	63.5	5.3	503	2	US-09-949-016-6528	Sequence 6528, Ap	477	62.5	5.2	214	2	US-09-417-264-11	Sequence 11, Appl
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406	63.5	5.3	503	5	PCT-US94-10080-10	Sequence 10, Appl	479	62.5	5.2	233	2	US-09-485-737B-69	Sequence 69, Appl
407	63.5	5.3	518	2	US-09-248-796A-13577	Sequence 18577, A	480	62.5	5.2	233	2	US-10-071-485-69	Sequence 69, Appl
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410	63.5	5.3	674	1	US-08-803-972-7	Sequence 7, Appl	483	62.5	5.2	298	2	US-09-107-433-5121	Sequence 5121, Ap
411	63.5	5.3	753	2	US-09-248-796A-19041	Sequence 19041, A	484	62.5	5.2	328	2	US-09-583-110-4999	Sequence 4999, Ap
412	63.5	5.3	786	2	US-09-543-681A-6650	Sequence 6650, Ap	485	62.5	5.2	344	2	US-09-120-365-63	Sequence 63, Appl
413	63.5	5.3	899	2	US-09-107-433-3196	Sequence 3196, Ap	486	62.5	5.2	344	2	US-09-515-039-63	Sequence 63, Appl
414	63.5	5.3	1286	7	5206163-1	Patent No. 5206163	487	62.5	5.2	345	2	US-09-270-767-60554	Sequence 60554, A
415	63.5	5.3	1339	2	US-09-388-221B-4	Sequence 4, Appl	488	62.5	5.2	389	2	US-09-949-002-501	Sequence 501, App
416	63.5	5.3	1429	2	US-10-029-347-26	Sequence 26, Appl	489	62.5	5.2	404	2	US-09-270-767-45164	Sequence 45164, A
417	63.5	5.3	1429	2	US-10-183-770A-15	Sequence 15, Appl	490	62.5	5.2	527	2	US-10-094-749-1697	Sequence 1697, Ap
418	63.5	5.3	1429	2	US-09-996-617-2	Sequence 2, Appl	491	62.5	5.2	592	2	US-09-328-352-4438	Sequence 4438, Ap
419	63.5	5.3	1443	2	US-09-388-221B-6	Sequence 6, Appl	492	62.5	5.2	593	2	US-09-000-145-4	Sequence 4, Appl
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422	63.5	5.3	1473	2	US-09-388-221B-2	Sequence 2, Appl	495	62.5	5.2	858	2	US-09-538-092-1127	Sequence 1127, Ap
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424	63.5	5.3	2627	1	US-09-060-836-3	Sequence 3, Appl	497	62.5	5.2	1008	2	US-09-949-016-10423	Sequence 10423, A
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426	63.5	5.3	113	2	US-09-621-976-4206	Sequence 4206, Ap	499	62.5	5.2	1030	2	US-09-107-433-2786	Sequence 2786, Ap
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428	63.5	5.2	206	1	US-08-494-574-7	Sequence 7, Appl	501	62.5	5.2	1068	1	US-08-429-054A-11	Sequence 11, Appl
429	63.5	5.2	225	2	US-09-238-741-2	Sequence 2, Appl	502	62.5	5.2	1068	1	US-08-718-777-7	Sequence 7, Appl
430	63.5	5.2	239	2	US-09-543-681A-7402	Sequence 7402, Ap	503	62.5	5.2	1068	2	US-09-051-341-7	Sequence 7, Appl
431	63.5	5.2	293	2	US-09-512-342-14	Sequence 14, Appl	504	62.5	5.2	1068	2	US-09-394-272-8	Sequence 8, Appl
432	63.5	5.2	301	2	US-09-107-532A-4953	Sequence 4953, Ap	505	62.5	5.2	1068	2	US-08-429-053-11	Sequence 11, Appl
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438	63.5	5.2	438	1	US-08-494-574-11	Sequence 11, Appl	511	62.5	5.1	72	2	US-09-845-849A-7	Sequence 7, Appl
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442	63.5	5.2	485	2	US-09-955-597-9	Sequence 9, Appl	515	62.5	5.1	410	2	US-09-949-016-7021	Sequence 7021, Ap
443	63.5	5.2	498	2	US-09-786-240-1	Sequence 1, Appl	516	62.5	5.1	455	1	US-08-679-635A-5	Sequence 5, Appl
444	63.5	5.2	508	2	US-09-655-270A-9	Sequence 9, Appl	517	62.5	5.1	455	2	US-09-419-163-5	Sequence 5, Appl
445	63.5	5.2	528	2	US-08-904-671-5	Sequence 5, Appl	518	62.5	5.1	499	2	US-09-902-540-14146	Sequence 14146, A
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447	63.5	5.2	559	2	US-09-832-441-2	Sequence 2, Appl	520	62.5	5.1	554	2	US-09-198-452A-148	Sequence 148, App
448	63.5	5.2	592	2	US-09-833-102-2	Sequence 2, Appl	521	62.5	5.1	621	2	US-09-489-039A-13909	Sequence 13909, A
449	63.5	5.2	622	2	US-09-305-381-2	Sequence 2, Appl	522	62.5	5.1	663	2	US-09-252-991A-30843	Sequence 30843, A
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451	63.5	5.2	748	2	US-08-904-871-6	Sequence 6, Appl	524	62.5	5.1	706	1	US-08-553-541B-2	Sequence 2, Appl
452	63.5	5.2	748	2	US-08-904-871-13	Sequence 13, Appl	525	62.5	5.1	706	2	US-09-268-202-2	Sequence 2, Appl
453	63.5	5.2	812	2	US-09-489-039A-12075	Sequence 12075, A	526	62.5	5.1	706	5	PCT-US94-06699-2	Sequence 2, Appl
454	63.5	5.2	812	2	US-08-220-151-2	Sequence 2, Appl	527	62.5	5.1	765	2	US-09-097-767A-38	Sequence 38, Appl
455	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	528	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
456	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	529	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
457	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	530	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
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459	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	532	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
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462	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	535	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
463	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	536	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
464	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	537	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
465	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	538	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
466	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	539	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
467	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	540	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
468	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	541	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
469	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	542	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
470	63.5	5.2	812	2	US-08-220-151-3	Sequence 3, Appl	543	62.5	5.1	825	2	US-09-097-767A-38	Sequence 38, Appl
471	63.5	5.2	812	2	US-09-134-001C-3428	Sequence 3428, Ap	544	62.5	5.1	825	2	US-09-252-991A-25780	Sequence 25780, A
472	63.5	5.2	1481	2	US-09-251-645-14	Sequence 14, Appl	545	62.5	5.1	825	2	US-09-252-991A-25780	Sequence 25780, A
473	62.5	5.2	134	2	US-09-252-991A-25154	Sequence 25154, A	546	61.5	5.1	297	2	US-09-543-681A-8242	Sequence 8242, Ap

547	61.5	5.1	349	2	US-09-248-796A-16744	Sequence 16744, A	620	61	5.1	774	2	US-09-073-259-1	Sequence 1, Appli
548	61.5	5.1	371	2	US-10-104-047-2894	Sequence 2894, Ap	621	61	5.1	774	2	US-09-363-095-1	Sequence 1, Appli
549	61.5	5.1	388	2	US-09-252-991A-21572	Sequence 21572, A	622	61	5.1	774	2	US-09-418-027-1	Sequence 1, Appli
550	61.5	5.1	414	2	US-09-248-796A-19046	Sequence 19046, A	623	61	5.1	779	1	US-08-375-134-12	Sequence 12, Appli
551	61.5	5.1	414	2	US-10-058-518-2	Sequence 2, Appli	624	61	5.1	779	5	PCT-US95-15263-12	Sequence 12, Appli
552	61.5	5.1	457	2	US-08-431-517F-14	Sequence 14, Appli	625	61	5.1	1132	2	US-10-094-749-1920	Sequence 1920, Ap
553	61.5	5.1	472	1	US-08-749-903-5	Sequence 5, Appli	626	61	5.1	2317	2	US-09-949-016-10109	Sequence 10109, A
554	61.5	5.1	472	2	US-09-088-641-5	Sequence 5, Appli	627	61	5.1	2680	2	US-09-489-039A-7973	Sequence 7973, Ap
555	61.5	5.1	483	2	US-08-431-517F-13	Sequence 13, Appli	628	61	5.1	2860	1	US-08-826-267-2	Sequence 2, Appli
556	61.5	5.1	569	2	US-09-514-245-22	Sequence 22, Appli	629	60.5	5.0	193	2	US-09-949-016-1888	Sequence 7888, Ap
557	61.5	5.1	612	2	US-09-248-796A-15682	Sequence 15682, A	630	60.5	5.0	197	2	US-09-252-991A-27889	Sequence 27889, A
558	61.5	5.1	627	2	US-09-252-991A-29507	Sequence 29507, A	631	60.5	5.0	202	2	US-09-902-540-11464	Sequence 11464, A
559	61.5	5.1	717	2	US-09-585-858-32	Sequence 32, Appli	632	60.5	5.0	212	2	US-09-036-985A-2	Sequence 2, Appli
560	61.5	5.1	727	2	US-10-270-878-32	Sequence 32, Appli	633	60.5	5.0	224	2	US-09-456-090A-40	Sequence 40, Appli
561	61.5	5.1	775	1	US-07-966-278-1	Sequence 1, Appli	634	60.5	5.0	224	2	US-09-453-234-40	Sequence 40, Appli
562	61.5	5.1	775	1	US-08-424-921-1	Sequence 1, Appli	635	60.5	5.0	225	2	US-09-893-737-292	Sequence 292, Appli
563	61.5	5.1	775	1	US-08-556-355A-1	Sequence 1, Appli	636	60.5	5.0	239	2	US-08-812-886-29	Sequence 29, Appli
564	61.5	5.1	775	1	US-07-803-627A-1	Sequence 1, Appli	637	60.5	5.0	239	2	US-09-535-332A-30	Sequence 30, Appli
565	61.5	5.1	775	1	US-09-244-889A-1	Sequence 1, Appli	638	60.5	5.0	239	2	US-10-104-047-2603	Sequence 2603, Ap
566	61.5	5.1	776	1	US-08-688-649-37	Sequence 37, Appli	639	60.5	5.0	240	2	US-10-094-749-1051	Sequence 1051, Ap
567	61.5	5.1	844	2	US-09-640-958-8	Sequence 8, Appli	640	60.5	5.0	258	2	US-09-328-352-8149	Sequence 8149, Ap
568	61.5	5.1	908	2	US-09-635-872A-15	Sequence 15, Appli	641	60.5	5.0	332	2	US-10-094-749-2300	Sequence 2300, Ap
569	61.5	5.1	908	2	US-09-636-077A-15	Sequence 15, Appli	642	60.5	5.0	370	1	US-08-341-538A-2	Sequence 2, Appli
570	61.5	5.1	908	2	US-09-636-060C-15	Sequence 15, Appli	643	60.5	5.0	370	1	US-08-725-518-2	Sequence 2, Appli
571	61.5	5.1	908	2	US-09-986-552-15	Sequence 15, Appli	644	60.5	5.0	370	2	US-09-538-092-1286	Sequence 1286, Ap
572	61.5	5.1	908	2	US-09-636-596C-15	Sequence 15, Appli	645	60.5	5.0	373	2	US-09-949-016-6581	Sequence 6581, Ap
573	61.5	5.1	908	2	US-10-023-894-9	Sequence 9, Appli	646	60.5	5.0	373	2	US-10-099-322-59	Sequence 59, Appli
574	61.5	5.1	908	2	US-10-306-686-15	Sequence 15, Appli	647	60.5	5.0	373	2	US-10-044-564-59	Sequence 59, Appli
575	61.5	5.1	908	2	US-09-895-072-15	Sequence 15, Appli	648	60.5	5.0	376	2	US-09-949-016-11385	Sequence 11385, A
576	61.5	5.1	908	2	US-10-023-888-9	Sequence 9, Appli	649	60.5	5.0	380	2	US-08-468-846-2	Sequence 2, Appli
577	61.5	5.1	927	2	US-08-895-601-6	Sequence 6, Appli	650	60.5	5.0	380	2	US-08-915-096A-2	Sequence 2, Appli
578	61.5	5.1	946	2	US-09-903-540-16817	Sequence 16817, A	651	60.5	5.0	380	2	US-10-099-322-60	Sequence 60, Appli
579	61.5	5.1	1809	2	US-09-012-515A-12	Sequence 12, Appli	652	60.5	5.0	380	2	US-10-044-564-60	Sequence 60, Appli
580	61.5	5.1	1809	2	US-08-360-144A-12	Sequence 12, Appli	653	60.5	5.0	381	2	US-09-248-796A-16356	Sequence 16356, A
581	61.5	5.1	1809	2	US-09-012-504A-12	Sequence 12, Appli	654	60.5	5.0	384	2	US-09-949-016-9661	Sequence 9661, Ap
582	61.5	5.1	1809	2	US-09-012-399A-12	Sequence 12, Appli	655	60.5	5.0	386	2	US-09-248-796A-17565	Sequence 17565, A
583	61.5	5.1	1822	2	US-09-949-016-7999	Sequence 7999, Ap	656	60.5	5.0	435	2	US-09-500-495A-6	Sequence 6, Appli
584	61.5	5.1	2549	2	US-08-471-112A-3	Sequence 3, Appli	657	60.5	5.0	437	2	US-09-248-796A-17709	Sequence 17709, A
585	61.5	5.1	2549	2	US-09-538-092-1112	Sequence 1112, Ap	658	60.5	5.0	442	2	US-08-965-492-13	Sequence 6445, Ap
586	61.5	5.1	2549	2	PCT-US95-06722-12	Sequence 12, Appli	659	60.5	5.0	510	2	US-10-094-749-1654	Sequence 1654, Ap
587	61.5	5.1	2549	5	PCT-US95-110-752	Sequence 4752, Ap	660	60.5	5.0	511	2	US-09-252-991A-32947	Sequence 32947, A
588	61.5	5.1	161	2	US-09-583-110-752	Sequence 110, Appli	661	60.5	5.0	512	2	US-10-094-749-1953	Sequence 1953, Ap
589	61.5	5.1	166	2	US-09-107-433-1102	Sequence 1102, Ap	662	60.5	5.0	516	2	US-10-094-749-1953	Sequence 1953, Ap
590	61.5	5.1	223	2	US-09-248-796A-23094	Sequence 23094, A	663	60.5	5.0	517	2	US-10-094-749-1953	Sequence 1953, Ap
591	61.5	5.1	252	2	US-09-252-991A-30900	Sequence 30900, A	664	60.5	5.0	519	2	US-09-252-991A-18063	Sequence 18063, A
592	61.5	5.1	322	2	US-09-489-039A-8442	Sequence 8442, Ap	665	60.5	5.0	568	2	US-09-252-991A-15879	Sequence 15879, A
593	61.5	5.1	359	2	US-09-489-039A-8365	Sequence 8365, Ap	666	60.5	5.0	667	2	US-08-959-004-11	Sequence 11, Appli
594	61.5	5.1	368	2	US-09-252-991A-19552	Sequence 19552, A	667	60.5	5.0	772	2	US-10-094-749-2566	Sequence 2566, Ap
595	61.5	5.1	383	2	US-09-248-796A-20283	Sequence 20283, A	668	60.5	5.0	824	2	US-09-134-000C-4908	Sequence 4908, Ap
596	61.5	5.1	386	2	US-09-328-352-8185	Sequence 8185, Ap	669	60.5	5.0	864	2	US-09-751-687-18	Sequence 18, Appli
597	61.5	5.1	389	2	US-10-808-807-6	Sequence 6, Appli	670	60.5	5.0	1088	2	US-09-252-991A-227278	Sequence 22728, A
598	61.5	5.1	397	5	PCT-US95-17111A-121	Sequence 121, Appli	671	60.5	5.0	1213	2	US-09-949-002-572	Sequence 572, Appli
599	61.5	5.1	496	2	US-09-252-991A-24607	Sequence 24607, A	672	60.5	5.0	1226	1	US-08-457-459-2	Sequence 2, Appli
600	61.5	5.1	496	2	US-09-339-1598-28	Sequence 28, Appli	673	60.5	5.0	1226	1	US-08-555-678-2	Sequence 2, Appli
601	61.5	5.1	497	2	US-09-181-339-3	Sequence 3, Appli	674	60.5	5.0	1226	2	US-09-949-002-313	Sequence 313, Appli
602	61.5	5.1	560	1	US-08-808-931-18	Sequence 18, Appli	675	60.5	5.0	1226	2	PCT-US95-02275-2	Sequence 2, Appli
603	61.5	5.1	560	2	US-08-808-333-18	Sequence 18, Appli	676	60.5	5.0	1226	5	US-09-917-254-92	Sequence 92, Appli
604	61.5	5.1	560	2	US-09-050-603A-18	Sequence 18, Appli	677	60.5	5.0	1226	1	US-08-157-005-2	Sequence 2, Appli
605	61.5	5.1	560	2	US-09-102-420B-18	Sequence 18, Appli	678	60.5	5.0	2336	2	US-08-747-863-2	Sequence 2, Appli
606	61.5	5.1	560	2	US-09-497-698-18	Sequence 18, Appli	679	60.5	5.0	2336	2	US-09-565-864-2	Sequence 2, Appli
607	61.5	5.1	565	2	US-09-730-525-18	Sequence 18, Appli	680	60.5	5.0	2336	2	US-10-226-065-2	Sequence 2, Appli
608	61.5	5.1	565	2	US-09-252-991A-28571	Sequence 28571, A	681	60.5	5.0	2336	2	US-08-626-667C-1	Sequence 1, Appli
609	61.5	5.1	587	2	US-09-831-683B-4	Sequence 4, Appli	682	60.5	5.0	2549	2	US-08-305-790B-2	Sequence 2, Appli
610	61.5	5.1	632	2	US-09-949-016-6812	Sequence 6812, Ap	683	60.5	5.0	119	2	US-09-302-540-12746	Sequence 12746, A
611	61.5	5.1	652	2	US-09-949-016-7323	Sequence 7323, Ap	684	60.5	5.0	143	2	US-09-543-681A-4427	Sequence 4427, Ap
612	61.5	5.1	660	2	US-09-252-991A-22842	Sequence 22842, A	685	60.5	5.0	186	2	US-09-540-236-3237	Sequence 3237, Ap
613	61.5	5.1	710	1	US-08-162-809-32	Sequence 22, Appli	686	60.5	5.0	186	2	US-09-248-796A-16423	Sequence 16423, A
614	61.5	5.1	722	1	US-08-162-809-4	Sequence 4, Appli	687	60.5	5.0	282	2	US-09-902-540-15602	Sequence 15602, A
615	61.5	5.1	744	1	US-08-162-809-50	Sequence 20, Appli	688	60.5	5.0	332	5	PCT-US91-02714-21	Sequence 21, Appli
616	61.5	5.1	774	2	US-08-902-632-2	Sequence 2, Appli	689	60.5	5.0	354	2	US-09-134-000C-52443	Sequence 52443, Ap
617	61.5	5.1	774	2	US-09-073-354-1	Sequence 1, Appli	690	60.5	5.0				
618	61.5	5.1	774	2	US-08-656-005A-1	Sequence 1, Appli	691	60.5	5.0				
619	61.5	5.1	774	2	US-08-656-005A-1	Sequence 1, Appli	692	60.5	5.0				

710	60	5.0	398	1	US-08-474-379C-86	Sequence 86, Appl	794	59.5	4.9	609	2	US-09-949-016-7750	Sequence 7750, Ap
711	60	5.0	414	2	US-09-107-532A-6114	Sequence 6114, Ap	795	59.5	4.9	609	2	US-09-949-016-7751	Sequence 7751, Ap
712	60	5.0	422	2	US-09-217-328A-7	Sequence 7, Appl	796	59.5	4.9	609	2	US-09-949-016-7752	Sequence 7752, Ap
713	60	5.0	424	2	US-08-311-731A-220	Sequence 220, Appl	797	59.5	4.9	609	2	US-09-949-016-7753	Sequence 7753, Ap
714	60	5.0	445	2	US-09-949-016-11396	Sequence 11396, A	798	59.5	4.9	609	2	US-09-949-016-7754	Sequence 7754, Ap
715	60	5.0	478	2	US-09-270-767-43204	Sequence 43204, A	799	59.5	4.9	619	2	US-09-538-092-16	Sequence 94, Appl
716	60	5.0	508	2	US-09-252-991A-17606	Sequence 17606, A	800	59.5	4.9	653	2	US-09-252-991A-16802	Sequence 16802, A
717	60	5.0	513	2	US-09-595-8578-30	Sequence 30, Appl	801	59.5	4.9	662	2	US-09-661-768A-25	Sequence 25, Appl
718	60	5.0	535	2	US-09-949-016-6847	Sequence 6847, Ap	802	59.5	4.9	662	2	US-09-764-246-25	Sequence 25, Appl
719	60	5.0	542	2	US-08-675-816-6	Sequence 6, Appl	803	59.5	4.9	662	2	US-09-949-002-315	Sequence 315, Appl
720	60	5.0	552	2	US-09-773-426A-9	Sequence 9, Appl	804	59.5	4.9	697	2	US-09-252-991A-33689	Sequence 32689, A
721	60	5.0	552	2	US-10-314-881-9	Sequence 9, Appl	805	59.5	4.9	804	2	US-08-981-446B-3	Sequence 3, Appl
722	60	5.0	560	2	US-09-902-540-15502	Sequence 15502, A	806	59.5	4.9	1034	2	US-09-252-991A-20969	Sequence 20969, A
723	60	5.0	599	2	US-09-252-991A-17250	Sequence 17250, A	807	59.5	4.9	1058	2	US-09-583-110-4522	Sequence 4522, Ap
724	60	5.0	605	2	US-09-949-016-9305	Sequence 9305, Ap	808	59.5	4.9	1069	2	US-09-107-433-4154	Sequence 4164, Ap
725	60	5.0	608	2	US-09-134-001C-3395	Sequence 3395, Ap	809	59.5	4.9	1086	2	US-10-160-719A-18	Sequence 18, Appl
726	60	5.0	636	2	US-10-104-047-3666	Sequence 3666, Ap	810	59.5	4.9	1086	2	US-09-900-237-10	Sequence 38, Appl
727	60	5.0	654	1	US-07-688-352C-22	Sequence 22, Appl	811	59.5	4.9	1086	2	US-09-900-237-10	Sequence 10, Appl
728	60	5.0	654	2	US-09-902-540-14501	Sequence 14501, A	812	59.5	4.9	1086	2	US-09-900-237-10	Sequence 50, Appl
729	60	5.0	673	2	US-09-091-725-23	Sequence 23, Appl	813	59.5	4.9	1164	2	US-09-949-016-9285	Sequence 9289, Ap
730	60	5.0	666	1	US-08-942-521B-9	Sequence 9, Appl	814	59.5	4.9	1261	2	US-09-248-796A-16620	Sequence 16620, A
731	60	5.0	711	2	US-10-094-749-2616	Sequence 2616, Ap	815	59.5	4.9	1261	2	US-09-445-353B-3	Sequence 3, Appl
732	60	5.0	734	2	US-09-146-249A-85	Sequence 85, Appl	816	59.5	4.9	1264	3	US-09-866-557A-2	Sequence 2, Appl
733	60	5.0	734	2	US-08-206-188B-85	Sequence 85, Appl	817	59.5	4.9	1392	2	US-09-538-092-1357	Sequence 1327, Ap
734	60	5.0	886	1	US-08-474-379C-65	Sequence 65, Appl	818	59.5	4.9	159	2	US-09-270-767-60687	Sequence 60687, A
735	60	5.0	886	2	US-09-146-249A-65	Sequence 65, Appl	819	59.5	4.9	111	2	US-09-489-039A-8799	Sequence 8799, Ap
736	60	5.0	886	1	US-08-206-188B-65	Sequence 65, Appl	820	59.5	4.9	142	2	US-09-252-991A-22630	Sequence 22630, A
737	60	5.0	898	1	US-08-474-379C-12	Sequence 12, Appl	821	59.5	4.9	145	2	US-09-489-039A-8799	Sequence 8799, Ap
738	60	5.0	898	2	US-09-146-249A-12	Sequence 12, Appl	822	59.5	4.9	155	2	US-09-134-001C-3343	Sequence 3343, Ap
739	60	5.0	898	2	US-08-206-188B-12	Sequence 12, Appl	823	59.5	4.9	170	2	US-09-228-986-116	Sequence 116, Ap
740	60	5.0	900	1	US-07-688-352C-12	Sequence 12, Appl	824	59.5	4.9	213	2	US-10-101-464A-116	Sequence 116, Ap
741	60	5.0	901	2	US-09-917-354-93	Sequence 93, Appl	825	59.5	4.9	213	2	US-10-138-727A-42	Sequence 42, Appl
742	60	5.0	1037	2	US-09-252-991A-16796	Sequence 16796, A	826	59.5	4.9	227	2	US-09-489-039A-10192	Sequence 10192, A
743	60	5.0	1438	2	US-09-358-092-189	Sequence 189, Appl	827	59.5	4.9	227	2	US-09-944-427A-7	Sequence 7, Appl
744	60	5.0	1903	2	US-09-949-016-8049	Sequence 8049, Ap	828	59.5	4.9	234	2	US-09-848-832-4	Sequence 4, Appl
745	60	5.0	1912	2	US-08-913-832A-2	Sequence 2, Appl	829	59.5	4.9	239	2	US-10-000-489-8	Sequence 8, Appl
746	60	5.0	1912	2	US-09-249-181A-2	Sequence 2, Appl	830	59.5	4.9	239	3	US-09-992-095B-8	Sequence 8, Appl
747	60	5.0	1912	2	US-09-158-707-2	Sequence 2, Appl	831	59.5	4.9	239	3	US-10-000-986A-8	Sequence 8, Appl
748	60	5.0	1997	2	US-09-949-016-6275	Sequence 6275, Ap	832	59.5	4.9	241	2	US-09-712-363-219	Sequence 219, Appl
749	60	5.0	2183	2	US-08-746-111-5	Sequence 5, Appl	833	59.5	4.9	253	2	US-09-489-039A-13477	Sequence 13477, A
750	60	5.0	2375	2	US-09-538-092-1131	Sequence 1131, Ap	834	59.5	4.9	256	2	US-09-248-796A-19990	Sequence 15990, A
751	59.5	4.9	88	2	US-09-621-976-6877	Sequence 6877, Ap	835	59.5	4.9	268	2	US-08-836-134-22	Sequence 22, Appl
752	59.5	4.9	112	2	US-09-060-726A-5	Sequence 5, Appl	836	59.5	4.9	268	2	US-09-493-784-22	Sequence 22, Appl
753	59.5	4.9	182	1	US-08-698-805-4	Sequence 4, Appl	837	59.5	4.9	277	1	US-08-762-129-5	Sequence 5, Appl
754	59.5	4.9	210	2	US-09-902-540-14845	Sequence 14845, A	838	59.5	4.9	277	2	US-09-949-016-6126	Sequence 6126, Ap
755	59.5	4.9	219	2	US-09-902-540-12679	Sequence 12679, A	839	59.5	4.9	293	2	US-09-902-540-16212	Sequence 16212, A
756	59.5	4.9	228	2	US-09-270-767-34872	Sequence 34872, A	840	59.5	4.9	293	2	US-09-037-143-50	Sequence 50, Appl
757	59.5	4.9	228	2	US-09-270-767-34872	Sequence 50089, A	841	59.5	4.9	295	2	US-08-260-174-50	Sequence 50, Appl
758	59.5	4.9	234	2	US-09-740-002-24	Sequence 24, Appl	842	59.5	4.9	295	2	US-09-338-128A-50	Sequence 50, Appl
759	59.5	4.9	271	2	US-09-461-325-199	Sequence 199, Appl	843	59.5	4.9	295	2	US-09-332-346-50	Sequence 50, Appl
760	59.5	4.9	271	2	US-10-012-442-199	Sequence 199, Appl	844	59.5	4.9	295	2	US-10-040-430-50	Sequence 50, Appl
761	59.5	4.9	271	2	US-10-115-123-199	Sequence 199, Appl	845	59.5	4.9	308	2	US-09-949-016-11042	Sequence 11042, A
762	59.5	4.9	306	2	US-09-392-772-6	Sequence 6, Appl	846	59.5	4.9	324	2	US-09-107-532A-6145	Sequence 6145, Ap
763	59.5	4.9	322	2	US-09-134-001C-3194	Sequence 3194, Ap	847	59.5	4.9	325	2	US-09-134-000C-4346	Sequence 4346, Ap
764	59.5	4.9	327	2	US-09-949-016-9200	Sequence 9200, Ap	848	59.5	4.9	334	2	US-09-328-859-2	Sequence 2, Appl
765	59.5	4.9	327	2	US-09-949-016-9201	Sequence 9201, Ap	849	59.5	4.9	376	2	US-09-252-991A-17393	Sequence 17393, A
766	59.5	4.9	327	2	US-09-949-016-9202	Sequence 9202, Ap	850	59.5	4.9	376	2	US-09-252-991A-17393	Sequence 17393, A
767	59.5	4.9	327	2	US-09-949-016-9203	Sequence 9203, Ap	851	59.5	4.9	448	2	US-09-949-016-10042	Sequence 10042, A
768	59.5	4.9	327	2	US-09-949-016-9204	Sequence 9204, Ap	852	59.5	4.9	448	2	US-09-543-681A-7737	Sequence 7737, Ap
769	59.5	4.9	327	2	US-09-949-016-9205	Sequence 9205, Ap	853	59.5	4.9	460	2	US-09-826-509-513	Sequence 513, Appl
770	59.5	4.9	327	2	US-09-949-016-9206	Sequence 9206, Ap	854	59.5	4.9	460	2	US-09-826-509-513	Sequence 25438, A
771	59.5	4.9	347	2	US-08-857-076-100	Sequence 100, Appl	855	59.5	4.9	474	2	US-09-332-041-5	Sequence 5, Appl
772	59.5	4.9	372	2	US-09-252-991A-29108	Sequence 29108, A	856	59.5	4.9	479	1	US-08-313-553-7	Sequence 7, Appl
773	59.5	4.9	397	2	US-09-252-991A-20113	Sequence 20113, A	857	59.5	4.9	479	1	US-08-313-553-7	Sequence 7, Appl
774	59.5	4.9	419	2	US-09-252-991A-31409	Sequence 31409, A	858	59.5	4.9	506	2	US-09-489-039A-8821	Sequence 8821, Ap
775	59.5	4.9	459	2	US-09-252-991A-26783	Sequence 26783, A	859	59.5	4.9	516	2	US-10-094-743-3095	Sequence 3095, Ap
776	59.5	4.9	476	2	US-08-624-635-5	Sequence 5, Appl	860	59.5	4.9	530	2	US-09-197-063-2	Sequence 2, Appl
777	59.5	4.9	485	2	US-09-949-016-10440	Sequence 10440, A	861	59.5	4.9	540	2	US-09-252-991A-20846	Sequence 20846, A
778	59.5	4.9	485	2	US-09-328-352-6663	Sequence 6663, Ap	862	59.5	4.9	541	2	US-09-252-991A-30398	Sequence 30398, A
779	59.5	4.9	533	2	US-09-949-016-10362	Sequence 10362, A	863	59.5	4.9	552	1	US-08-828-199A-22	Sequence 22, Appl
790	59.5	4.9	533	2	US-09-949-016-10362	Sequence 10362, A	864	59.5	4.9	552	1	US-07-999-280A-22	Sequence 22, Appl
791	59.5	4.9	609	2	US-09-949-016-7747	Sequence 7747, Ap	865	59.5	4.9	552	1	US-08-426-279-22	Sequence 22, Appl
792	59.5	4.9	609	2	US-09-949-016-7748	Sequence 7748, Ap	866	59.5	4.9	552	1	US-08-401-013-22	Sequence 22, Appl
793	59.5	4.9	609	2	US-09-949-016-7749	Sequence 7749, Ap	866	59.5	4.9	552	2	US-08-426-570-22	Sequence 22, Appl

867	59	4.9	552	2	US-08-425-876-22	Sequence 22, Appl	940	58.5	4.9	429	2	US-09-252-991A-29792	Sequence 29792, A
868	59	4.9	552	2	US-08-426-243-22	Sequence 22, Appl	941	58.5	4.9	444	2	US-09-402-532-7	Sequence 15665, A
869	59	4.9	552	2	US-08-401-633-22	Sequence 22, Appl	942	58.5	4.9	451	2	US-09-902-540-15865	Sequence 27314, A
870	59	4.9	573	2	US-09-326-352-6016	Sequence 6016, Ap	943	58.5	4.9	467	2	US-09-252-991A-27314	Sequence 2, Appl
871	59	4.9	573	2	US-09-489-039A-12091	Sequence 12091, A	944	58.5	4.9	471	1	US-08-203-905B-2	Sequence 6774, Ap
872	59	4.9	612	2	US-09-902-540-9694	Sequence 9694, Ap	945	58.5	4.9	471	1	US-09-949-016-5774	Sequence 3, Appl
873	59	4.9	614	2	US-09-252-991A-19833	Sequence 19833, A	946	58.5	4.9	472	1	US-08-749-903-3	Sequence 20, Appl
874	59	4.9	636	2	US-09-949-016-11656	Sequence 11656, A	947	58.5	4.9	472	2	US-09-088-641-3	Sequence 3, Appl
875	59	4.9	728	2	US-09-949-016-8296	Sequence 8296, Ap	948	58.5	4.9	477	2	US-08-704-711A-20	Sequence 20, Appl
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877	59	4.9	769	1	US-08-477-407-4	Sequence 4, Appl	950	58.5	4.9	477	2	US-08-281-313-1	Sequence 20, Appl
878	59	4.9	769	1	US-08-484-355-4	Sequence 9605, Ap	951	58.5	4.9	477	2	US-09-521-220-20	Sequence 21, Appl
879	59	4.9	769	1	US-09-949-016-9605	Sequence 9605, Ap	952	58.5	4.9	477	2	US-09-391-104-21	Sequence 15, Appl
880	59	4.9	769	1	US-09-949-016-9605	Sequence 9606, Ap	953	58.5	4.9	477	2	US-09-669-730-15	Sequence 342, Ap
881	59	4.9	828	2	US-09-107-532A-4191	Sequence 4191, Ap	954	58.5	4.9	477	2	US-09-543-681A-4766	Sequence 4766, Ap
882	59	4.9	917	2	US-09-902-540-18445	Sequence 12845, A	955	58.5	4.9	481	2	US-09-949-002-338	Sequence 538, Ap
883	59	4.9	929	2	US-09-697-022-3	Sequence 3, Appl	956	58.5	4.9	482	2	US-09-949-016-11046	Sequence 11046, A
884	59	4.9	969	1	US-08-868-786-2	Sequence 2, Appl	957	58.5	4.9	503	2	US-09-657-013-50	Sequence 50, Appl
885	59	4.9	981	1	US-08-649-046-2	Sequence 956, App	958	58.5	4.9	512	2	US-09-350-234-24	Sequence 24, Appl
886	59	4.9	1044	1	US-10-101-464A-956	Sequence 7454, Ap	959	58.5	4.9	512	2	US-09-603-311-24	Sequence 24, Appl
887	59	4.9	1217	2	US-09-949-016-7454	Sequence 2, Appl	960	58.5	4.9	512	2	US-09-570-856B-30	Sequence 30, Appl
888	59	4.9	4150	2	US-09-428-517-2	Sequence 34271, A	961	58.5	4.9	512	2	US-09-508-418A-2	Sequence 54, Appl
889	58.5	4.9	92	2	US-09-270-767-34271	Sequence 49488, A	962	58.5	4.9	548	2	US-09-657-013-54	Sequence 8881, Ap
890	58.5	4.9	124	2	US-09-902-540-16378	Sequence 16378, A	963	58.5	4.9	549	2	US-09-949-016-8881	Sequence 8882, Ap
891	58.5	4.9	138	2	US-09-252-991A-17424	Sequence 5588, Ap	964	58.5	4.9	549	2	US-09-949-016-8883	Sequence 8884, Ap
892	58.5	4.9	169	2	US-09-134-000C-5588	Sequence 6478, Ap	965	58.5	4.9	549	2	US-09-949-016-8884	Sequence 8885, Ap
893	58.5	4.9	180	2	US-09-949-016-6478	Sequence 8631, Ap	966	58.5	4.9	549	2	US-09-949-016-8885	Sequence 20358, A
894	58.5	4.9	182	2	US-09-489-039A-6631	Sequence 20976, A	967	58.5	4.9	551	2	US-09-079-431B-6	Sequence 6, Appl
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896	58.5	4.9	218	1	US-09-698-705-12	Sequence 5, Appl	969	58.5	4.9	595	2	US-09-949-016-8873	Sequence 8874, Ap
897	58.5	4.9	236	1	US-08-157-101A-5	Sequence 2052, Ap	970	58.5	4.9	595	2	US-09-949-016-8875	Sequence 947, App
898	58.5	4.9	250	2	US-09-540-236-2052	Sequence 32, Appl	971	58.5	4.9	595	2	US-10-034-944-14	Sequence 14, Appl
899	58.5	4.9	259	2	US-09-934-060A-32	Sequence 29015, A	972	58.5	4.9	595	2	US-10-144-678A-947	Sequence 947, App
900	58.5	4.9	260	2	US-09-252-991A-29015	Sequence 24007, A	973	58.5	4.9	595	2	US-09-272-835D-18	Sequence 18, Appl
901	58.5	4.9	261	2	US-09-310-463-34	Sequence 4460, Ap	974	58.5	4.9	617	2	US-09-347-488-2	Sequence 2, Appl
902	58.5	4.9	265	2	US-09-902-540-11498	Sequence 5, Appl	975	58.5	4.9	617	2	US-09-376-856-2	Sequence 82, Appl
903	58.5	4.9	280	2	US-09-543-681A-4460	Sequence 4460, Ap	976	58.5	4.9	621	2	US-09-438-185A-5566	Sequence 5566, App
904	58.5	4.9	281	2	US-07-712-476A-5	Sequence 3511, Ap	977	58.5	4.9	721	2	US-09-390-234-20	Sequence 20, Appl
905	58.5	4.9	282	1	US-07-712-476A-5	Sequence 1, Appl	978	58.5	4.9	731	2	US-09-603-311-20	Sequence 20, Appl
906	58.5	4.9	292	2	US-07-712-476A-1	Sequence 14, Appl	979	58.5	4.9	746	2	US-09-252-991A-17180	Sequence 17180, A
907	58.5	4.9	296	1	US-09-583-807-29	Sequence 29, Appl	980	58.5	4.9	804	2	US-09-149-934-4	Sequence 4, Appl
908	58.5	4.9	299	2	US-09-107-433-4340	Sequence 4340, Ap	981	58.5	4.9	848	2	US-08-855-910-4	Sequence 33, Appl
909	58.5	4.9	300	2	US-09-948-016-5962	Sequence 5962, Ap	982	58.5	4.9	937	2	US-09-538-092-33	Sequence 602, App
910	58.5	4.9	300	2	US-09-958-617A-12	Sequence 12, Appl	983	58.5	4.9	972	2	US-09-198-452A-602	Sequence 8530, Ap
911	58.5	4.9	300	7	5340934-6	Sequence 2450, Ap	984	58.5	4.9	1006	2	US-09-949-016-8421	Sequence 8530, Ap
912	58.5	4.9	311	2	US-09-821-736-5	Sequence 1, Appl	985	58.5	4.9	1006	2	US-09-949-016-8530	Sequence 807, App
913	58.5	4.9	312	2	US-09-134-253-1	Sequence 2, Appl	986	58.5	4.9	1014	2	US-09-862-027-82	Sequence 82, Appl
914	58.5	4.9	314	2	US-09-206-576-2	Sequence 896, App	987	58.5	4.9	1014	2	US-09-862-027-82	Sequence 566, App
915	58.5	4.9	314	2	US-09-538-092-896	Sequence 14, Appl	988	58.5	4.9	1015	2	US-09-949-016-7599	Sequence 7599, Ap
916	58.5	4.9	314	2	US-09-958-617A-14	Sequence 29, Appl	989	58.5	4.9	1016	2	US-09-949-016-7600	Sequence 7600, Ap
917	58.5	4.9	314	2	US-09-830-807-29	Sequence 3380, Ap	990	58.5	4.9	1017	2	US-09-902-540-12221	Sequence 12221, A
918	58.5	4.9	318	2	US-09-134-001C-3380	Sequence 14236, A	991	58.5	4.9	1018	2	US-08-221-285-33	Sequence 33, Appl
919	58.5	4.9	324	2	US-09-902-540-14236	Sequence 10363, A	992	58.5	4.9	1019	2	US-08-428-596A-33	Sequence 33, Appl
920	58.5	4.9	329	2	US-09-948-016-10363	Sequence 2, Appl	993	58.5	4.9	1020	2	US-08-812-003-2	Sequence 2, Appl
921	58.5	4.9	333	1	US-07-991-587A-2	Sequence 2, Appl	994	58.5	4.9	1021	2	US-09-543-681A-5533	Sequence 5533, Ap
922	58.5	4.9	333	1	US-08-309-985-2	Sequence 7, Appl	995	58.5	4.9	1022	2	US-09-552-991A-24852	Sequence 24852, A
923	58.5	4.9	336	2	US-09-995-938A-7	Sequence 2454, Ap	996	58.5	4.9	1023	2	US-09-252-991A-25771	Sequence 25771, A
924	58.5	4.9	340	2	US-10-094-749-2454	Sequence 43505, A	997	58.5	4.9	1024	2	US-09-107-532A-5701	Sequence 5701, Ap
925	58.5	4.9	344	2	US-09-270-767-43505	Sequence 2, Appl	998	58.5	4.9	1025	2	US-09-583-110-3050	Sequence 3050, App
926	58.5	4.9	354	2	US-09-608-917A-2	Sequence 4, Appl	999	58.5	4.9	1026	2	US-09-538-092-118	Sequence 118, App
927	58.5	4.9	378	2	US-09-500-569-10	Sequence 10, Appl	1000	58.5	4.9	1027	2	US-09-107-433-4425	Sequence 4425, Ap
928	58.5	4.9	378	2	US-09-971-823B-10	Sequence 8771, Ap	1001	58.5	4.9	1028	2	US-09-902-540-12858	Sequence 12858, A
929	58.5	4.9	386	2	US-09-489-039A-8771	Sequence 8, Appl	1002	58.5	4.9	1029	2	US-09-328-352-7169	Sequence 7169, Ap
930	58.5	4.9	400	1	US-08-624-601-8	Sequence 7, Appl	1003	58.5	4.9	1030	2	US-09-049-672A-2	Sequence 2, Appl
931	58.5	4.9	409	2	US-09-880-137-7	Sequence 2, Appl	1004	58.5	4.9	1031	2	US-08-908-469-100	Sequence 100, App
932	58.5	4.9	411	2	US-09-402-532-2	Sequence 2, Appl	1005	58.5	4.9	237	2		
933	58.5	4.9	413	2	US-09-949-016-7602	Sequence 7603, Ap							
934	58.5	4.9	414	2	US-09-402-532-5	Sequence 68, Appl							
935	58.5	4.9	421	2	US-09-020-846-58								

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1033	58	4.8	246	2	US-09-558-284-2	Sequence 2, Appli	1106	58	4.8	879	2	US-08-794-158-2	Sequence 2, Appli
1034	58	4.8	249	2	US-09-640-211A-1019	Sequence 1019, Ap	1107	58	4.8	912	2	US-09-302-540-16181	Sequence 16181, A
1035	58	4.8	251	2	US-09-489-039A-9020	Sequence 9020, Ap	1108	58	4.8	933	2	US-10-089-057A-22	Sequence 22, Appli
1036	58	4.8	262	2	US-09-270-767-57554	Sequence 57554, A	1109	58	4.8	966	2	US-09-328-352-6926	Sequence 626, Ap
1037	58	4.8	263	2	US-09-543-681A-5138	Sequence 5138, Ap	1110	58	4.8	984	2	US-09-657-931A-12	Sequence 12, Appli
1038	58	4.8	275	2	US-09-328-352-7552	Sequence 7552, Ap	1111	58	4.8	986	3	US-10-426-417-12	Sequence 12, Appli
1039	58	4.8	332	2	US-09-248-796A-1577	Sequence 1577, A	1112	58	4.8	1051	2	US-09-949-016-6190	Sequence 6190, Ap
1040	58	4.8	332	2	US-09-902-540-12515	Sequence 12515, A	1113	58	4.8	1054	2	US-09-626-301-2	Sequence 2, Appli
1041	58	4.8	337	1	US-08-861-464-12	Sequence 12, Appli	1114	58	4.8	1059	2	US-09-252-991A-28189	Sequence 28189, A
1042	58	4.8	337	1	US-08-396-001-12	Sequence 12, Appli	1115	58	4.8	1068	2	US-09-949-016-6644	Sequence 6644, Ap
1043	58	4.8	337	2	US-09-323-433A-12	Sequence 12, Appli	1116	58	4.8	1088	2	US-09-949-016-6644	Sequence 6644, Ap
1044	58	4.8	337	2	US-09-826-752-12	Sequence 12, Appli	1117	58	4.8	1090	2	US-09-949-016-6725	Sequence 6725, Ap
1045	58	4.8	349	2	US-09-343-011B-1	Sequence 1, Appli	1118	58	4.8	1092	2	US-09-949-016-6725	Sequence 6725, Ap
1046	58	4.8	351	2	US-08-324-483-2	Sequence 2, Appli	1119	58	4.8	1129	2	US-09-543-681A-8019	Sequence 8019, Ap
1047	58	4.8	361	2	US-09-270-767-37733	Sequence 37733, A	1120	58	4.8	1141	2	US-09-949-016-9459	Sequence 9459, Ap
1048	58	4.8	365	2	US-09-134-000C-4369	Sequence 4369, Ap	1121	58	4.8	1147	2	US-09-949-016-8616	Sequence 8616, Ap
1049	58	4.8	380	2	US-09-248-796A-17008	Sequence 17008, A	1122	58	4.8	1167	2	US-10-089-678A-1	Sequence 1, Appli
1050	58	4.8	384	2	US-09-489-039A-13733	Sequence 13733, A	1123	58	4.8	1191	2	US-09-914-472A-1	Sequence 1, Appli
1051	58	4.8	394	2	US-09-252-991A-19674	Sequence 19674, A	1124	58	4.8	1243	2	US-10-638-333-1	Sequence 1, Appli
1052	58	4.8	402	2	US-09-270-767-42272	Sequence 42272, A	1125	58	4.8	1246	2	US-09-125-028-2	Sequence 2, Appli
1053	58	4.8	432	2	US-09-857-612A-15	Sequence 15, Appli	1126	58	4.8	1258	2	US-08-894-344C-2	Sequence 2, Appli
1054	58	4.8	433	2	US-09-673-899-2	Sequence 2, Appli	1127	58	4.8	1298	2	US-09-678-023A-2	Sequence 2, Appli
1055	58	4.8	433	2	US-09-673-899-4	Sequence 4, Appli	1128	58	4.8	1298	2	US-09-678-023A-2	Sequence 2, Appli
1056	58	4.8	433	2	US-09-673-899-6	Sequence 6, Appli	1129	58	4.8	1307	2	US-09-919-497-70	Sequence 70, Appli
1057	58	4.8	438	2	US-09-252-991A-19012	Sequence 19012, A	1130	58	4.8	1307	2	US-09-144-085-1	Sequence 1, Appli
1058	58	4.8	438	2	US-09-538-092-62	Sequence 62, Appli	1131	57.5	4.8	1322	2	US-09-248-796A-24014	Sequence 24014, A
1059	58	4.8	443	2	US-09-540-236-3386	Sequence 3386, Ap	1132	57.5	4.8	1322	1	US-08-616-392C-10	Sequence 10, Appli
1060	58	4.8	457	1	US-08-264-101-4	Sequence 4, Appli	1133	57.5	4.8	1324	2	US-09-456-090A-52	Sequence 52, Appli
1061	58	4.8	457	1	US-08-765-243-4	Sequence 4, Appli	1134	57.5	4.8	1324	2	US-09-453-234-52	Sequence 52, Appli
1062	58	4.8	457	5	PCT-US95-07295-4	Sequence 4, Appli	1135	57.5	4.8	1326	2	US-09-456-090A-42	Sequence 42, Appli
1063	58	4.8	458	1	US-08-112-817C-2	Sequence 2, Appli	1136	57.5	4.8	1326	2	US-09-456-090A-80	Sequence 80, Appli
1064	58	4.8	458	2	US-09-694-519-5	Sequence 5, Appli	1137	57.5	4.8	1326	2	US-09-453-234-42	Sequence 42, Appli
1065	58	4.8	458	2	US-09-694-519-7	Sequence 7, Appli	1138	57.5	4.8	1326	2	US-09-453-234-80	Sequence 80, Appli
1066	58	4.8	485	2	US-09-270-767-45701	Sequence 45701, A	1139	57.5	4.8	1326	2	US-09-902-540-10214	Sequence 10214, A
1067	58	4.8	491	2	US-10-011-125A-2	Sequence 2, Appli	1140	57.5	4.8	1326	2	US-09-831-683B-8	Sequence 8, Appli
1068	58	4.8	496	2	US-09-082-092-10	Sequence 10, Appli	1141	57.5	4.8	1326	2	US-09-270-767-62302	Sequence 62302, A
1069	58	4.8	496	2	US-09-288-282A-46	Sequence 46, Appli	1142	57.5	4.8	1325	2	US-09-348-352-1865	Sequence 7865, Ap
1070	58	4.8	496	2	US-09-885-722A-10	Sequence 10, Appli	1143	57.5	4.8	1325	2	US-09-348-352-1865	Sequence 7865, Ap
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1072	58	4.8	524	2	US-10-101-464A-943	Sequence 943, Ap	1145	57.5	4.8	1325	2	US-09-348-352-1865	Sequence 7865, Ap
1073	58	4.8	536	2	US-09-902-540-13091	Sequence 13091, A	1146	57.5	4.8	1324	2	US-09-902-540-10214	Sequence 10214, A
1074	58	4.8	538	2	US-09-248-796A-17632	Sequence 17632, A	1147	57.5	4.8	1324	2	US-09-902-540-10214	Sequence 10214, A
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1076	58	4.8	552	1	US-07-999-280A-24	Sequence 24, Appli	1149	57.5	4.8	1324	2	US-09-902-540-10214	Sequence 10214, A
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1078	58	4.8	552	1	US-08-401-013-24	Sequence 24, Appli	1151	57.5	4.8	1324	2	US-09-902-540-10214	Sequence 10214, A
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1096	58	4.8	736	2	US-10-144-198-38	Sequence 38, Appli	1169	57.5	4.8	1324	2	US-09-902-540-10214	Sequence 10214, A
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1103	58	4.8	808	2	US-09-270-767-51774	Sequence 51774, A	1176	57.5	4.8	1324	2	US-09-902-540-10214	Sequence 10214, A
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1181	57.5	4.8	458	2	US-09-770-564A-9	Sequence 9, Appl	1254	57.5	4.8	600	2	US-09-352-159-36	Sequence 36, Appl
1182	57.5	4.8	458	2	US-09-658-835C-9	Sequence 9, Appl	1255	57.5	4.8	600	2	US-09-352-159-18	Sequence 38, Appl
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1186	57.5	4.8	462	2	US-09-352-159-8	Sequence 8, Appl	1259	57.5	4.8	600	2	US-09-771-045B-36	Sequence 36, Appl
1187	57.5	4.8	462	2	US-09-352-168-6	Sequence 6, Appl	1260	57.5	4.8	600	2	US-09-771-045B-38	Sequence 38, Appl
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1196	57.5	4.8	462	2	US-10-624-619A-6	Sequence 6, Appl	1269	57.5	4.8	600	2	US-09-658-835C-36	Sequence 36, Appl
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1202	57.5	4.8	463	2	US-09-771-045B-51	Sequence 51, Appl	1275	57.5	4.8	648	1	US-08-478-435-109	Sequence 109, Appl
1203	57.5	4.8	463	2	US-09-771-045B-53	Sequence 53, Appl	1276	57.5	4.8	648	1	US-08-337-483-109	Sequence 109, Appl
1204	57.5	4.8	463	2	US-09-882-694B-19	Sequence 19, Appl	1277	57.5	4.8	648	1	US-08-478-673-109	Sequence 109, Appl
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1207	57.5	4.8	463	2	US-09-658-835C-49	Sequence 49, Appl	1280	57.5	4.8	648	2	US-08-897-438-109	Sequence 109, Appl
1208	57.5	4.8	463	2	US-09-658-835C-51	Sequence 51, Appl	1281	57.5	4.8	648	2	US-08-637-654-109	Sequence 109, Appl
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1210	57.5	4.8	463	2	US-10-624-619A-11	Sequence 11, Appl	1283	57.5	4.8	651	2	US-10-104-047-2645	Sequence 2645, Appl
1211	57.5	4.8	465	2	US-09-801-052-2	Sequence 2, Appl	1284	57.5	4.8	660	2	US-08-761-136-1	Sequence 1, Appl
1212	57.5	4.8	465	2	US-09-252-991A-18003	Sequence 18003, A	1285	57.5	4.8	660	2	US-09-576-967-1	Sequence 1, Appl
1213	57.5	4.8	465	2	US-10-020-121-2	Sequence 2, Appl	1286	57.5	4.8	660	2	US-09-538-092-1165	Sequence 1165, Appl
1214	57.5	4.8	465	2	US-09-949-016-10240	Sequence 10240, A	1287	57.5	4.8	660	2	US-10-219-541-1	Sequence 1, Appl
1215	57.5	4.8	465	2	US-10-636-579-2	Sequence 2, Appl	1288	57.5	4.8	660	2	US-09-949-016-6637	Sequence 6637, Appl
1216	57.5	4.8	465	2	US-09-720-318A-8	Sequence 8, Appl	1289	57.5	4.8	662	2	US-09-352-159-19	Sequence 19, Appl
1217	57.5	4.8	472	2	US-09-108-020-12	Sequence 12, Appl	1290	57.5	4.8	662	2	US-09-352-168-11	Sequence 11, Appl
1218	57.5	4.8	472	2	US-09-685-296-12	Sequence 12, Appl	1291	57.5	4.8	662	2	US-07-757-1420-6	Sequence 6, Appl
1219	57.5	4.8	476	2	US-09-078-173A-2	Sequence 2, Appl	1292	57.5	4.8	662	2	US-09-461-6578-6	Sequence 6, Appl
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1225	57.5	4.8	483	2	US-09-078-173A-4	Sequence 4, Appl	1298	57.5	4.8	662	2	US-09-107-532A-3930	Sequence 3930, Appl
1226	57.5	4.8	483	2	US-10-042-991-4	Sequence 4, Appl	1299	57.5	4.8	662	2	US-09-949-016-6638	Sequence 6638, Appl
1227	57.5	4.8	486	2	US-09-134-000C-4392	Sequence 4392, Ap	1300	57.5	4.8	662	2	US-09-949-016-7340	Sequence 7340, Ap
1228	57.5	4.8	487	2	US-09-352-159-21	Sequence 21, Appl	1301	57.5	4.8	662	2	US-09-949-016-7341	Sequence 7341, Ap
1229	57.5	4.8	487	2	US-09-352-168-21	Sequence 21, Appl	1302	57.5	4.8	662	2	US-09-129-075-4	Sequence 4, Appl
1230	57.5	4.8	487	2	US-09-771-045B-21	Sequence 21, Appl	1303	57.5	4.8	662	2	US-09-346-237-3	Sequence 3, Appl
1231	57.5	4.8	487	2	US-09-770-564A-21	Sequence 21, Appl	1304	57.5	4.8	662	2	US-09-346-237-13	Sequence 13, Appl
1232	57.5	4.8	487	2	US-09-658-835C-21	Sequence 21, Appl	1305	57.5	4.8	662	2	US-09-544-123-4	Sequence 4, Appl
1233	57.5	4.8	487	2	US-10-624-619A-21	Sequence 21, Appl	1306	57.5	4.8	662	2	US-09-358-755-1	Sequence 1, Appl
1234	57.5	4.8	488	2	US-09-078-173A-6	Sequence 6, Appl	1307	57.5	4.8	662	2	US-09-564-805-2	Sequence 2, Appl
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1236	57.5	4.8	488	2	US-10-042-991-6	Sequence 6, Appl	1309	57.5	4.8	662	2	US-09-949-016-9796	Sequence 9796, Ap
1237	57.5	4.8	511	1	US-09-438-185A-475	Sequence 475, App	1310	57.5	4.8	662	2	US-09-352-159-33	Sequence 33, Appl
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1239	57.5	4.8	548	2	US-09-438-185A-25	Sequence 25, Appl	1312	57.5	4.8	662	2	US-09-352-168-33	Sequence 33, Appl
1240	57.5	4.8	554	2	US-09-352-159-17	Sequence 17, Appl	1313	57.5	4.8	662	2	US-09-770-564A-33	Sequence 33, Appl
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1242	57.5	4.8	554	2	US-09-771-045B-17	Sequence 17, Appl	1315	57.5	4.8	662	2	US-09-489-039A-12501	Sequence 12501, A
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1245	57.5	4.8	554	2	US-10-624-619A-17	Sequence 17, Appl	1318	57.5	4.8	662	2	US-09-352-991A-17937	Sequence 17937, A
1246	57.5	4.8	570	2	US-08-747-321B-54	Sequence 54, Appl	1319	57.5	4.8	662	2	US-09-352-159-27	Sequence 27, Appl
1247	57.5	4.8	570	2	US-09-005-051-54	Sequence 54, Appl	1320	57.5	4.8	662	2	US-09-352-168-27	Sequence 27, Appl
1248	57.5	4.8	570	2	US-09-403-942F-54	Sequence 54, Appl	1321	57.5	4.8	662	2	US-09-771-045B-27	Sequence 27, Appl
1249	57.5	4.8	592	2	US-09-252-991A-20435	Sequence 20435, A	1322	57.5	4.8	662	2	US-09-658-835C-27	Sequence 27, Appl
1250	57.5	4.8	596	2	US-08-747-221B-25	Sequence 25, Appl	1323	57.5	4.8	662	2	US-10-624-619A-27	Sequence 27, Appl

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1325	57.5	4.8	1000	2	US-09-352-168-35	Sequence 25, Appl	1398	57	4.7	337	2	US-09-710-279-3326	Sequence 3326, Ap
1326	57.5	4.8	1000	2	US-09-771-045B-25	Sequence 25, Appl	1399	57	4.7	334	2	US-09-338-907-74	Sequence 74, Appl
1327	57.5	4.8	1000	2	US-09-770-564A-25	Sequence 25, Appl	1400	57	4.7	334	2	US-09-218-207-74	Sequence 74, Appl
1328	57.5	4.8	1000	2	US-09-658-835C-25	Sequence 25, Appl	1401	57	4.7	333	2	US-09-800-729-111	Sequence 111, App
1329	57.5	4.8	1000	2	US-10-624-619A-25	Sequence 25, Appl	1402	57	4.7	335	2	US-09-248-796A-20986	Sequence 20986, A
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1331	57.5	4.8	1138	2	US-09-252-991A-20291	Sequence 20291, A	1404	57	4.7	366	2	US-09-599-360B-89	Sequence 89, Appl
1332	57.5	4.8	1165	2	US-09-949-016-6874	Sequence 6874, Ap	1405	57	4.7	371	2	US-09-800-729-212	Sequence 212, App
1333	57.5	4.8	1165	2	US-09-949-016-11392	Sequence 11392, A	1406	57	4.7	371	2	US-09-134-001C-4502	Sequence 4502, Ap
1334	57.5	4.8	1196	2	US-09-352-159-31	Sequence 31, Appl	1418	57	4.7	388	2	US-09-252-991A-30845	Sequence 30845, A
1335	57.5	4.8	1196	2	US-09-352-168-31	Sequence 31, Appl	1419	57	4.7	386	2	US-09-248-796A-20335	Sequence 20335, A
1336	57.5	4.8	1196	2	US-09-771-045B-31	Sequence 31, Appl	1420	57	4.7	336	2	US-09-134-000C-4226	Sequence 4226, Ap
1337	57.5	4.8	1196	2	US-09-770-564A-31	Sequence 31, Appl	1421	57	4.7	337	2	US-09-090-044B-9	Sequence 9, Appl
1338	57.5	4.8	1196	2	US-09-658-835C-31	Sequence 31, Appl	1422	57	4.7	400	2	US-09-949-016-6685	Sequence 6685, Appl
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ALIGNMENTS

RESULT 1

Sequence 61, Application US/10036041
Patent No. 6984519
GENERAL INFORMATION:
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Stewart, Timothy A.
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3030R1C8
CURRENT APPLICATION NUMBER: US/10/036,041
CURRENT FILING DATE: 2001-12-26
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
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PRIOR FILING DATE: 2001-06-20

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; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: PCT/US01/21735
; PRIOR FILING DATE: 2001-07-09
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; Sequence 3, Application US/09208718
; Patent No. 6063767
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Hillman, Jennifer
; APPLICANT: Corley, Neil
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: HUMAN PHOSPHOLIPID BINDING PROTEINS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
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; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/208,718
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/958,820
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0379 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; INFORMATION FOR SEQ ID NO: 3:
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; LENGTH: 227 amino acids
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; US-09-208-718-3

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RESULT 3
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; Sequence 8, Application US/09621976
; Patent No. 663063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
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; Sequence 8, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclet, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59, US2, REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -22...-1
; OTHER INFORMATION: score 8.5
; OTHER INFORMATION: seq AALLILGLMMVVTG/DE
US-09-513-999C-8

Query Match      97.8%; Score 1177; DB 2; Length 227;
Best Local Similarity 98.6%; Pred. No. 2,1e-124;
Matches 218; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGMTRLVTTAALLILGLMMVVTGDEDENSPCAHLEALDEDTLFCGGLVFFYELGNIGCKV 60
DB 1 MGMTRLVTTAALLILGLMMVVTGDEDENSPCAHLEALDEDTLFCGGLVFFYELGNIGCKV 60
QY 61 VPDCNNYRQKITSWMEPIVKFPGAVDGTATYILVWVDPDAPSRAPRORFMRHMLVTDIKG 120
DB 61 VPDCNNYRQKITSWMEPIVKFPGAVDGTATYILVWVDPDAPSRAPRORFMRHMLVTDIKG 120
QY 121 ADLKKGKIQOELSAVQAPSPPAHSGFHRVQFFVYLOEGKVISLLPKENKTRGSKMDRF 180
DB 121 ADLKKGKIQOELSAVQAPSPPAHSGFHRVQFFVYLOEGKVISLLPKENKTRGSKMDRF 180
QY 181 LNRPHLGEPEASTQFMNTQNYODSPTLQAPRGASEPCHKTR 221
DB 181 LNRPHLGEPEASTQFMNTQNYODSPTLQAPRGASEPCHKTR 221

RESULT 5
US-09-471-276-8
; Sequence 8, Application US/09471276
; Patent No. 6822072
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclet, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6822072
; FILE REFERENCE: GENSET.025CPI
; CURRENT APPLICATION NUMBER: US/09/471,276
; CURRENT FILING DATE: 1999-12-21
; EARLIER APPLICATION NUMBER: 09/057,719
; EARLIER FILING DATE: 1998-04-09
; EARLIER APPLICATION NUMBER: 09/069,047
; EARLIER FILING DATE: 1998-04-28
; EARLIER APPLICATION NUMBER: PCT/IB99/00712
; EARLIER FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 1622
; SOFTWARE: Patent.pm
; SEQ ID NO 8
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: SIGNAL
; LOCATION: -22...-1
; OTHER INFORMATION: score 8.5
; OTHER INFORMATION: seq AALLILGLMMVVTG/DE
US-09-471-276-8

Query Match      97.8%; Score 1177; DB 2; Length 227;
Best Local Similarity 98.6%; Pred. No. 2,1e-124;
Matches 218; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGMTRLVTTAALLILGLMMVVTGDEDENSPCAHLEALDEDTLFCGGLVFFYELGNIGCKV 60
DB 1 MGMTRLVTTAALLILGLMMVVTGDEDENSPCAHLEALDEDTLFCGGLVFFYELGNIGCKV 60
QY 61 VPDCNNYRQKITSWMEPIVKFPGAVDGTATYILVWVDPDAPSRAPRORFMRHMLVTDIKG 120
DB 61 VPDCNNYRQKITSWMEPIVKFPGAVDGTATYILVWVDPDAPSRAPRORFMRHMLVTDIKG 120
QY 121 ADLKKGKIQOELSAVQAPSPPAHSGFHRVQFFVYLOEGKVISLLPKENKTRGSKMDRF 180
DB 121 ADLKKGKIQOELSAVQAPSPPAHSGFHRVQFFVYLOEGKVISLLPKENKTRGSKMDRF 180
QY 181 LNRPHLGEPEASTQFMNTQNYODSPTLQAPRGASEPCHKTR 221
DB 181 LNRPHLGEPEASTQFMNTQNYODSPTLQAPRGASEPCHKTR 221

RESULT 6
US-09-492-308A-7
; Sequence 7, Application US/09492308A
; Patent No. 6573430
; GENERAL INFORMATION:
; APPLICANT: Bradley, DJ
; APPLICANT: Coen, ES
; APPLICANT: Carpenter, R
; TITLE OF INVENTION: Flowering genes
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye PC
; STREET: 8th Floor, 1100 No. 6573430th Giebe Road
; CITY: Arlington
; STATE: Virginia
; COUNTRY: United States of America
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/492,308A
; FILING DATE: 27-Jan-2000
; CLASSIFICATION: 435 (Preliminary)
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/043,029
; FILING DATE: 13-MAR-1998
; APPLICATION NUMBER: PCT/GB96/02276
; FILING DATE: 13-SEP-1996
; APPLICATION NUMBER: GB 9518731.6
; FILING DATE: 13-SEP-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Mary J. Wilson
; REGISTRATION NUMBER: 32,955
; REFERENCE/DOCKET NUMBER: 620-93
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
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US-09-492-308A-7

Query Match 19.6%; Score 235.5; DB 2; Length 187;
Best Local Similarity 36.5%; Pred. No. 2.6e-18;
Matches 57; Conservative 20; Mismatches 60; Indels 19; Gaps 5;

QY 52 ELGNIGCKVVDCCNNYRQKITSWMEPIVKFPGAVDGAATYILVMDPDAPSRAEPRORFWR 111
DB 36 ELGKV--LPTQVNMNPPSSISW-----DGLDPGKLYTLVLPDAPSRKDPKRFEMH 85

QY 112 HMLVTDIKGADLKKKIQGQELSAVQAPSPAHSGFHRQFVYLOEGKVIS---LLPK 167
DB 86 HFLVNMKNKDISSGTV---LSEVSGSPKPDGTHRYVLYVEQCPPLNCDEPILSNK 141

QY 168 ENKTRGSKMKDRFLNRFHLGEPEASTQFTMTQNYODS 203
DB 142 SGDNRGKFKVESFRKKYHLGAPVAGTCFOAE-WDDS 176

RESULT 7
US-09-208-718-6
Sequence 6, Application US/09208718
Patent No. 6063767
GENERAL INFORMATION:
APPLICANT: Lal, Preeti
APPLICANT: Hillman, Jennifer
APPLICANT: Corley, Neil
APPLICANT: Shah, Purvi
TITLE OF INVENTION: HUMAN PHOSPHOLIPID BINDING PROTEINS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESS: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/208,718
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/958,820
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0379 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 152 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: Genbank
CLONE: 1143527
US-09-208-718-6

Query Match 19.2%; Score 231; DB 2; Length 152;
Best Local Similarity 37.0%; Pred. No. 6.3e-18;
Matches 54; Conservative 18; Mismatches 58; Indels 16; Gaps 5;

QY 55 NIGCKVVD--DCNNYRQKITSWMEPIVKFPGAVDGAATYILVMDPDAPSRAEPRORFWRH 113

DB 20 NLGNELPTQVKNQPTKV-SW-----DAEPGALTYLVMTPDAPSRKDPVREKHHW 70

QY 114 LVTDIKGADLKKKIQGQELSAVQAPSPAHSGFHRQFVYLOEGKVISLLPKENTRG 173
DB 71 LIINISQNVSSGTV---LSDYISGSPKPDGTHRYVLYVEQCPPLNCDEPILSNK 124

QY 174 SWMKDRFLNRFHLGEPEASTQFTMTQ 199
DB 125 NFKVMDPANKHLDGNPVAGNFOAKH 150

RESULT 8
US-10-362-642B-1
Sequence 1, Application US/10362642B
Patent No. 7029877
GENERAL INFORMATION:
APPLICANT: Hugo Albrecht
APPLICANT: Ulrich Hengst
APPLICANT: Denis Monard
TITLE OF INVENTION: Methods and Reagents for Protease Inhibition
FILE REFERENCE: 1-31577A
CURRENT APPLICATION NUMBER: US/10/362,642B
CURRENT FILING DATE: 2003-02-24
PRIOR APPLICATION NUMBER: GB 0021497.3
PRIOR FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 187
TYPE: PRT
ORGANISM: Mus musculus
US-10-362-642B-1

Query Match 18.7%; Score 225; DB 3; Length 187;
Best Local Similarity 35.1%; Pred. No. 4.1e-17;
Matches 53; Conservative 22; Mismatches 58; Indels 18; Gaps 4;

QY 52 ELGNIGCKVVDCCNNYRQKITSWMEPIVKFPGAVDGAATYILVMDPDAPSRAEPRORFWR 111
DB 36 ELGKV--LPTQVNMNPPSSISW-----DGLDPGKLYTLVLPDAPSRKDPKRFEMH 85

QY 112 HMLVTDIKGADLKKKIQGQELSAVQAPSPAHSGFHRQFVYLOEGKVIS---LLPK 167
DB 86 HFLVNMKNKDISSGTV---LSDYVSGSPKPDGTHRYVLYVEQCPPLNCDEPILSNK 141

QY 168 ENKTRGSKMKDRFLNRFHLGEPEASTQFTMTQ 198
DB 142 SGDNRGKFKVETFRKKYHLGAPVAGTCFOAE 172

RESULT 9
US-09-654-281B-4
Sequence 4, Application US/09654281B
Patent No. 6864224
GENERAL INFORMATION:
APPLICANT: Sedivy, John
APPLICANT: Kolch, Walter
APPLICANT: Yeung, Kam Chi
TITLE OF INVENTION: Kinase Inhibitors and Methods of Use in Screening Assays and Mod
FILE REFERENCE: 3564/1010
CURRENT APPLICATION NUMBER: US/09/654,281B
CURRENT FILING DATE: 2000-09-01
PRIOR APPLICATION NUMBER: 60/151,992
PRIOR FILING DATE: 1999-09-01
NUMBER OF SEQ ID NOS: 11
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 187
TYPE: PRT
ORGANISM: Drosophila
US-09-654-281B-4

Db 141 KSGDNRGKFKVSPFRKXHLGAPVAGTCFOAE-WDDS 176

RESULT 15
US-08-403-378B-15
Sequence 15, Application US/08403378B
Patent No. 5759991
GENERAL INFORMATION:
APPLICANT: TOHDOH, NAOKI
APPLICANT: TOJO, SHIN-ICHIRO
APPLICANT: KOJIMA, SHIN-ICHI
APPLICANT: Ueki, YASUYUKI
APPLICANT: NISHIHARA, TOSHIO
APPLICANT: FUKUSHIMA, NOBUYUKI
APPLICANT: IRIE, TSUNEMASA
APPLICANT: ONO, KEIICHI
APPLICANT: AGUI, HIDEO
APPLICANT: OJIKAWA, KOSEI
TITLE OF INVENTION: NEUTROPHILIC PEPTIDE DERIVATIVES
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: SUGHRUE, MION, ZINN, MACPEAK & SEAS
STREET: 2100 PENNSYLVANIA AVENUE, NW
CITY: WASHINGTON
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20037-3202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/403,378B
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 3-124688
FILING DATE: 27-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 1-080398
FILING DATE: 30-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 1-280590
FILING DATE: 27-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 1-333241
FILING DATE: 21-DEC-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-243003
FILING DATE: 12-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/758,043
FILING DATE: 12-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/873,764
FILING DATE: 27-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP93/01214
FILING DATE: 27-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: BIGGART, WADELL A
REGISTRATION NUMBER: 24,861
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)293-7060
TELEFAX: (202)293-7860
TELEX: 6491103
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 187 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-403-378B-15

Query Match 17.0%; Score 205; DB 1; Length 187;
Best Local Similarity 33.1%; Pred. No. 7, 3e-15;
Matches 50; Conservative 21; Mismatches 62; Indels 18; Gaps 4;

QY 52 ELGNIGCKVVPDCNNYRQKITSWMEPIVKEPAGVDATYILVMVDPDAPSPRAEPFRQFWR 111
Db 36 ELGKV---LTPTQVKRPTSIW-----DGLDSGLYTLVLPDPAPSRKDPKREWH 85
QY 112 HMLVTDIKGDLDKKIKIGQGLSAYQAPSPRPSGFRHYGFYVLOGKXYS----LLPK 167
Db 86 HFLVNNKGNDSISGTV---LSDYVGGSPKGTGLHRYVWLVEODRPLKCEPILSNR 141
QY 168 ENKTRGSKMDRFLNRFHLGEPPEASTQFMTO 198
Db 142 SGDHRGKFKVASFRKXELRAPVAGTCFOAE 172

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Job time : 74 secs

GenCore version 5.1.9
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OM protein - protein search, using sw model

Run on: November 19, 2006, 04:39:21 ; Search time 179 Seconds
(without alignments)
577.078 Million cell updates/sec

Perfect score: 1204
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Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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85	1204	100.0	223	4	US-10-223-084-306
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92	1204	100.0	223	4	US-10-223-087-306
93	1204	100.0	223	4	US-10-223-083-306
96	1204	100.0	223	4	US-10-223-089-306
99	1204	100.0	223	4	US-10-223-081-306
118	1204	100.0	223	4	US-10-223-082-306
119	1204	100.0	223	4	US-10-305-654-306
122	1204	100.0	223	4	US-10-081-056-306
127	1204	100.0	223	5	US-10-884-091-61
134	1200	99.7	223	4	US-10-291-265-245
135	1200	99.7	223	6	US-11-000-463-245
136	1181	98.1	227	3	US-09-879-401-3
137	1178	97.8	227	4	US-10-403-142-128
138	1177	97.8	227	3	US-09-978-360A-540
139	1177	97.8	227	3	US-09-978-360A-540
140	1177	97.8	227	5	US-10-926-683-8
141	1177	97.8	225	4	US-10-403-676-62
142	1174	97.5	227	4	US-10-403-142-130
143	1173	97.4	227	4	US-10-003-152-2
144	1173	97.4	227	4	US-10-002-050-2
145	1173	97.4	227	4	US-10-002-304-2
146	1173	97.4	227	4	US-10-403-676-58
147	1173	97.4	235	4	US-10-403-676-60

148	1171	97.3	227	3	US-09-895-298-107	Sequence 107, App
149	1171	97.3	227	5	US-10-885-039-107	Sequence 107, App
150	1170	97.2	227	4	US-10-403-676-76	Sequence 76, App1
151	1170	97.2	227	4	US-10-403-142-108	Sequence 108, App
152	1167	96.9	227	4	US-10-403-142-126	Sequence 126, App
153	1166	96.8	227	4	US-10-403-142-124	Sequence 124, App
154	1165	96.8	227	4	US-10-403-142-118	Sequence 118, App
155	1163	96.6	227	4	US-10-403-142-120	Sequence 120, App
156	1160	96.3	227	4	US-10-403-142-122	Sequence 122, App
157	1070	88.9	206	4	US-10-403-676-66	Sequence 66, App1
158	1068	88.7	209	4	US-10-403-676-78	Sequence 78, App1
159	1068	88.7	209	4	US-10-403-142-114	Sequence 114, App
160	1068	88.7	211	4	US-10-403-676-70	Sequence 70, App1
161	1066	88.5	206	4	US-10-403-676-64	Sequence 64, App1
162	1065	88.5	209	4	US-10-403-142-110	Sequence 110, App
163	1064	88.4	211	4	US-10-403-676-68	Sequence 68, App1
164	1055	87.6	205	4	US-10-403-142-116	Sequence 116, App
165	1055	87.6	209	4	US-10-403-142-112	Sequence 112, App
166	957	79.8	182	4	US-10-403-676-72	Sequence 72, App1
167	957	79.5	182	4	US-10-403-676-74	Sequence 74, App1
168	764	63.5	182	4	US-10-281-265-717	Sequence 717, App
169	764	63.5	182	6	US-11-000-463-717	Sequence 717, App
170	688	57.1	149	3	US-09-895-298-218	Sequence 218, App
171	688	57.1	149	5	US-10-885-039-218	Sequence 218, App
172	430	35.7	84	4	US-10-425-115-312177	Sequence 312177, App
173	394	32.7	86	3	US-09-895-298-112	Sequence 112, App
174	394	32.7	86	3	US-09-895-298-224	Sequence 224, App
175	394	32.7	86	5	US-10-885-039-112	Sequence 112, App
176	394	32.7	86	5	US-10-885-039-224	Sequence 224, App
177	235.5	19.6	187	4	US-10-356-631-7	Sequence 7, App1
178	235.5	19.6	187	4	US-10-316-253-105	Sequence 105, App
179	235.5	19.6	187	4	US-10-316-253-107	Sequence 107, App
180	232	19.3	105	5	US-10-773-236-226	Sequence 226, App
181	232	19.3	105	5	US-10-773-236-329	Sequence 329, App
182	231	19.2	152	3	US-09-879-401-6	Sequence 6, App1
183	229	19.0	178	6	US-11-097-143-13236	Sequence 12336, A
184	225	18.7	187	5	US-10-362-642B-1	Sequence 1, App1
185	222.5	18.5	187	4	US-10-382-970-4	Sequence 4, App1
186	222.5	18.5	187	4	US-10-384-358-4	Sequence 4, App1
187	222.5	18.5	187	6	US-11-097-143-21771	Sequence 21771, A
188	222	18.4	220	4	US-10-382-970-5	Sequence 5, App1
189	222	18.4	220	4	US-10-384-435B-5	Sequence 5, App1
190	218.5	18.1	186	4	US-10-356-631-8	Sequence 8, App1
191	216.5	18.0	202	6	US-11-097-143-26418	Sequence 26418, A
192	213	17.7	187	4	US-10-382-970-3	Sequence 3, App1
193	213	17.7	187	4	US-10-384-435B-3	Sequence 3, App1
194	211	17.5	187	4	US-10-382-970-2	Sequence 2, App1
195	211	17.5	187	4	US-10-384-435B-2	Sequence 2, App1
196	207.5	17.2	223	5	US-10-873-595-12	Sequence 12, App1
197	207.5	17.2	223	5	US-10-873-595-12	Sequence 12, App1
198	205	17.0	187	4	US-10-408-765A-488	Sequence 488, App
199	205	17.0	187	5	US-10-851-921-10	Sequence 10, App1
200	205	17.0	187	5	US-10-362-642B-2	Sequence 2, App1
201	205	17.0	187	6	US-11-124-367A-483	Sequence 483, App
202	205	17.0	187	6	US-11-124-367A-484	Sequence 484, App
203	204.5	17.0	176	4	US-10-437-963-165818	Sequence 165818, App
204	204.5	17.0	176	5	US-10-343-477A-30	Sequence 30, App1
205	202.5	16.8	142	5	US-10-343-477A-36	Sequence 36, App1
206	202	16.8	180	4	US-10-408-765A-260	Sequence 260, App
207	195.5	16.2	485	4	US-10-437-963-203900	Sequence 203900, App
208	194.5	16.2	485	4	US-10-437-963-203900	Sequence 203900, App
209	194.5	16.2	196	4	US-10-425-114-67491	Sequence 42, App1
210	194.5	16.2	196	4	US-10-425-114-67491	Sequence 67491, A
211	193	16.0	158	4	US-10-425-114-67492	Sequence 67492, A
212	193	16.0	180	5	US-10-343-477A-54	Sequence 54, App1
213	192	15.9	180	4	US-10-343-477A-6	Sequence 6, App1
214	192	15.9	180	5	US-10-425-115-193329	Sequence 193329, App
215	186.5	15.5	179	6	US-11-097-143-15546	Sequence 15546, A
216	185.5	15.4	174	5	US-10-343-477A-4	Sequence 4, App1
217	185	15.4	178	4	US-10-437-963-172754	Sequence 172754, App
218	182	15.1	177	4	US-10-425-115-243651	Sequence 243651, App
219	182	15.1	177	5	US-10-343-477A-18	Sequence 18, App1
220	182	15.1	179	4	US-10-425-114-56802	Sequence 56802, A

221	182	15.1	179	4	US-10-432-531-2	Sequence 2, Appl	294	140	11.6	173	5	US-10-343-477-32	Sequence 32, Appl
222	182	15.1	179	4	US-10-432-531-4	Sequence 4, Appl	295	140	11.6	173	6	US-11-087-099-3805	Sequence 3805, Ap
223	182	15.1	179	5	US-10-343-477A-62	Sequence 62, Appl	296	138	11.5	176	4	US-10-437-963-132830	Sequence 132830,
224	182	15.1	179	4	US-10-437-963-168356	Sequence 168356,	297	137.5	11.4	176	4	US-10-382-970-7	Sequence 7, Appl
225	181.5	15.0	211	6	US-11-097-143-26415	Sequence 26415, A	298	137.5	11.4	176	4	US-10-384-4358-7	Sequence 7, Appl
226	181	15.0	210	6	US-11-097-143-11358	Sequence 11358, A	299	137.5	11.4	177	4	US-10-356-631-5	Sequence 5, Appl
227	180	15.0	171	4	US-10-767-701-33894	Sequence 33894, A	300	137.5	11.4	177	4	US-10-356-631-22	Sequence 22, Appl
228	179	14.9	177	4	US-10-655-799-26	Sequence 26, Appl	301	137.5	11.4	177	5	US-10-507-355-4	Sequence 4, Appl
229	179	14.9	177	6	US-11-110-082-26	Sequence 26, Appl	302	137.5	11.4	177	6	US-11-087-099-375	Sequence 375, Ap
230	177.5	14.7	225	5	US-10-450-763-57817	Sequence 57817, A	303	137	11.3	174	4	US-10-425-115-240923	Sequence 240923,
231	177	14.7	181	4	US-10-767-701-51358	Sequence 51358, A	304	135.5	11.3	174	4	US-10-655-799-36	Sequence 36, Appl
232	175.5	14.6	174	4	US-10-437-963-160980	Sequence 160980,	305	135.5	11.3	174	6	US-11-110-082-36	Sequence 36, Appl
233	175.5	14.6	174	4	US-10-343-477A-56	Sequence 56, Appl	306	133	11.0	145	4	US-10-767-701-58650	Sequence 58650, A
234	175.5	14.6	176	6	US-11-097-143-28200	Sequence 28200, A	307	133	11.0	177	6	US-11-087-099-11875	Sequence 11875, A
235	174	14.5	163	4	US-10-425-115-259487	Sequence 259487,	308	133	11.0	178	5	US-10-507-355-5	Sequence 5, Appl
236	173	14.4	177	4	US-10-424-599-274975	Sequence 274975,	309	133	11.0	178	5	US-10-507-355-6	Sequence 6, Appl
237	173	14.4	185	4	US-10-437-963-148986	Sequence 148986,	310	133	11.0	178	6	US-11-087-099-11791	Sequence 11791, Ap
238	172	14.3	172	4	US-10-424-599-201099	Sequence 201099,	311	133	11.0	178	6	US-11-087-099-11170	Sequence 11170, A
239	172	14.3	172	6	US-11-087-099-9014	Sequence 9014, Ap	312	131.5	10.9	143	4	US-10-424-599-183338	Sequence 18338, A
240	169	14.0	173	5	US-10-343-477A-40	Sequence 40, Appl	313	131.5	10.9	172	4	US-10-356-631-21	Sequence 21, Appl
241	168.5	14.0	172	5	US-10-343-477A-10	Sequence 10, Appl	314	131.5	10.9	177	4	US-10-356-631-21	Sequence 21, Appl
242	168.5	14.0	173	5	US-10-343-477A-8	Sequence 8, Appl	315	131	10.9	178	6	US-11-087-099-8902	Sequence 8902, Ap
243	168.5	14.0	177	5	US-10-425-115-290498	Sequence 290498,	316	131	10.9	178	6	US-11-087-099-11390	Sequence 11390, A
244	168.5	14.0	177	5	US-10-343-477A-16	Sequence 16, Appl	317	130.5	10.8	128	5	US-10-356-631-20	Sequence 20, Appl
245	168.5	14.0	187	4	US-10-425-114-64381	Sequence 64381, A	318	130	10.8	128	5	US-10-343-477A-24	Sequence 24, Appl
246	167.5	13.9	168	4	US-10-767-701-51924	Sequence 51924, A	319	129	10.7	173	5	US-10-343-477A-58	Sequence 58, Appl
247	166	13.8	150	5	US-10-343-477A-2	Sequence 2, Appl	320	128	10.6	173	5	US-10-507-355-3	Sequence 3, Appl
248	165	13.7	172	6	US-11-087-099-113320	Sequence 11320, A	321	124	10.3	23	3	US-09-895-298-220	Sequence 220, App
249	165	13.7	174	5	US-10-343-477A-12	Sequence 12, Appl	322	124	10.2	23	4	US-10-885-039-220	Sequence 220, App
250	164	13.6	174	5	US-10-507-355-11	Sequence 11, Appl	323	122.5	10.2	219	4	US-10-382-970-8	Sequence 8, Appl
251	164	13.6	175	3	US-09-291-809C-2	Sequence 2, Appl	324	122.5	10.2	219	4	US-10-384-4358-8	Sequence 8, Appl
252	164	13.6	175	3	US-09-845-849-2	Sequence 2, Appl	325	121	10.0	24	3	US-09-895-298-219	Sequence 219, App
253	164	13.6	175	3	US-09-919-478-3	Sequence 3, Appl	326	121	10.0	24	3	US-10-885-039-219	Sequence 219, App
254	164	13.6	175	3	US-10-343-477A-61	Sequence 61, Appl	327	121	10.0	178	6	US-11-087-099-4291	Sequence 4291, Ap
255	164	13.6	175	5	US-10-507-355-14	Sequence 14, Appl	328	120.5	10.4	136	3	US-09-919-478-4	Sequence 4, Appl
256	163	13.5	174	4	US-10-437-963-160617	Sequence 160617	329	119	9.9	105	5	US-10-343-477A-26	Sequence 26, Appl
257	161	13.4	180	5	US-10-343-477A-44	Sequence 44, Appl	330	118.5	9.8	82	5	US-10-450-763-57815	Sequence 57815, A
258	160	13.3	174	5	US-10-343-477A-60	Sequence 60, Appl	331	114	9.5	177	6	US-11-087-099-6799	Sequence 6799, Ap
259	160	13.3	176	4	US-10-424-599-242775	Sequence 242775,	332	113.5	9.4	58	6	US-11-188-298-1336	Sequence 10167, A
260	159.5	13.2	175	4	US-10-424-599-281946	Sequence 281946,	333	113.5	9.4	197	4	US-10-332-934-85	Sequence 85, Appl
261	158.5	13.2	175	4	US-10-425-115-356392	Sequence 356392,	334	113	9.4	151	6	US-11-188-298-173033	Sequence 173033, A
262	158.5	13.2	176	3	US-09-919-478-41	Sequence 41, Appl	335	111.5	9.3	197	6	US-11-188-298-17725	Sequence 17725, A
263	157.5	13.1	176	4	US-10-425-115-211052	Sequence 211052,	336	110	9.1	112	4	US-10-425-115-259488	Sequence 259488,
264	157.5	13.1	182	4	US-10-425-114-72755	Sequence 72755, A	337	109.5	9.1	58	6	US-11-087-099-69655	Sequence 69655, Ap
265	157.5	13.1	276	5	US-10-491-733-44	Sequence 44, Appl	338	108.5	9.0	143	6	US-11-188-298-1336	Sequence 1336, Ap
266	157	13.0	177	4	US-10-424-599-182156	Sequence 182156,	339	108.5	9.0	181	6	US-11-188-298-2318	Sequence 2318, Ap
267	154.5	12.8	173	4	US-10-437-963-121745	Sequence 121745,	340	107	8.8	213	4	US-10-425-114-73066	Sequence 73066, A
268	154.5	12.8	173	5	US-10-507-355-13	Sequence 13, Appl	341	106.5	8.8	179	6	US-11-188-298-11944	Sequence 11944, A
269	153	12.7	173	5	US-10-343-477A-20	Sequence 20, Appl	342	106.5	8.8	203	6	US-11-188-298-5205	Sequence 5205, Ap
270	152.5	12.7	189	4	US-10-425-114-67447	Sequence 67447, A	343	106	8.8	20	3	US-09-895-298-221	Sequence 221, App
271	152	12.6	173	4	US-10-437-963-167316	Sequence 167316,	344	106	8.8	112	6	US-11-085-039-221	Sequence 221, App
272	152	12.6	173	5	US-10-343-477A-51	Sequence 51, Appl	345	106	8.8	171	6	US-11-188-298-11122	Sequence 11722, A
273	152	12.6	173	5	US-10-507-355-12	Sequence 12, Appl	346	105	8.7	106	3	US-09-291-809C-8	Sequence 8, Appl
274	152	12.6	179	4	US-10-262-445-38	Sequence 26, Appl	347	105	8.7	106	3	US-09-845-849-8	Sequence 8, Appl
275	150	12.5	172	4	US-10-372-909-2	Sequence 2, Appl	348	104.5	8.7	129	4	US-10-425-114-48249	Sequence 48249, A
276	148.5	12.3	173	5	US-10-507-355-10	Sequence 10, Appl	349	104	8.6	140	4	US-10-425-115-261245	Sequence 261245, A
277	148	12.3	175	4	US-10-425-115-211050	Sequence 211050,	350	104	8.6	122	6	US-11-188-298-17732	Sequence 17732, A
278	148	12.3	181	4	US-10-356-631-2	Sequence 2, Appl	351	103.5	8.6	141	4	US-10-425-115-195892	Sequence 195892,
279	148	12.3	181	4	US-10-382-970-6	Sequence 6, Appl	352	103.5	8.6	171	6	US-11-188-298-8043	Sequence 8043, Ap
280	148	12.3	181	4	US-10-384-4358-6	Sequence 6, Appl	353	103	8.6	132	4	US-10-437-963-135491	Sequence 135491,
281	148	12.3	181	5	US-10-507-355-7	Sequence 7, Appl	354	103	8.6	194	6	US-11-188-298-21339	Sequence 21239, A
282	147.5	12.3	169	4	US-10-437-963-138655	Sequence 138655,	355	103	8.6	140	6	US-11-097-143-31194	Sequence 31194, A
283	147.5	12.3	175	5	US-10-507-355-8	Sequence 8, Appl	356	101.5	8.4	150	6	US-11-188-298-11413	Sequence 11413, A
284	145.5	12.1	193	4	US-10-425-115-356396	Sequence 356396,	357	100.5	8.4	176	6	US-11-188-298-17350	Sequence 17255, A
285	144.5	12.0	175	5	US-10-507-355-9	Sequence 9, Appl	358	100	8.3	180	6	US-11-188-298-6267	Sequence 6267, Ap
286	144.5	12.0	175	5	US-10-425-115-326829	Sequence 326829,	359	100	8.3	216	6	US-11-188-298-13938	Sequence 13938, A
287	142.5	11.8	177	4	US-10-356-631-23	Sequence 23, Appl	360	98.5	8.2	131	6	US-11-188-298-11694	Sequence 11694, A
288	142.5	11.8	177	6	US-10-424-599-148429	Sequence 148429,	361	98.5	8.2	130	6	US-10-425-115-321361	Sequence 321361,
289	141	11.7	173	4	US-10-343-477A-38	Sequence 38, Appl	362	96.5	8.0	166	6	US-11-188-298-11675	Sequence 11675, A
290	141	11.7	173	6	US-11-087-099-6266	Sequence 6266, Ap	363	96	8.0	156	6	US-11-188-298-21832	Sequence 21832, A
291	141	11.7	173	6	US-10-425-114-55003	Sequence 55003, A	364	96	8.0	239	4	US-10-437-963-184618	Sequence 184618,
292	141	11.7	195	4	US-10-343-477A-22	Sequence 22, Appl	365	96	8.0	183	6	US-11-188-298-13858	Sequence 13858, A
293	140	11.6	173	5	US-10-343-477A-22	Sequence 22, Appl	366	95	7.9	183	6	US-11-188-298-13858	Sequence 13858, A

367	95	7.9	201	4	US-10-433-934-87	Sequence 87, Appl	440	79	6.6	173	4	US-10-767-701-66947	Sequence 46647, A
368	94	7.8	80	4	US-10-425-115-229094	Sequence 239094, A	441	79	6.6	197	4	US-10-424-599-285284	Sequence 285284, A
369	93	7.7	166	6	US-11-096-568A-26605	Sequence 26605, A	442	79	6.6	389	4	US-10-767-701-110590	Sequence 41090, A
370	93	7.7	173	6	US-11-096-568A-26604	Sequence 26604, A	443	79	6.6	948	4	US-10-437-963-183451	Sequence 183451, A
371	93	7.7	209	6	US-11-096-568A-26603	Sequence 26603, A	444	78.5	6.5	83	3	US-09-895-298-215	Sequence 215, Appl
372	92.5	7.7	172	3	US-09-902-331-10	Sequence 10, Appl	445	78.5	6.5	83	3	US-10-885-039-215	Sequence 215, Appl
373	91.5	7.6	176	3	US-09-902-331-6	Sequence 6, Appl	446	78.5	6.5	162	6	US-11-188-298-5565	Sequence 5565, Appl
374	91.5	7.6	176	4	US-10-425-115-228728	Sequence 238728, A	447	78.5	6.5	285	4	US-10-437-963-153368	Sequence 153368, A
375	91.5	7.6	551	4	US-10-369-493-930	Sequence 930, Appl	448	78	6.5	191	4	US-10-424-599-285285	Sequence 285285, A
376	91	7.6	17	5	US-09-895-298-222	Sequence 222, Appl	449	77	6.4	110	4	US-10-289-762-943	Sequence 943, Appl
377	91	7.6	17	3	US-10-885-039-222	Sequence 222, Appl	450	77	6.4	579	4	US-10-011-548-2	Sequence 2, Appl
378	89.5	7.4	179	3	US-10-156-761-14011	Sequence 14011, A	451	77	6.4	1275	4	US-10-128-714-3125	Sequence 3125, Appl
379	89.5	7.4	176	3	US-09-791-171-50	Sequence 50, Appl	452	76.5	6.4	21	3	US-09-895-298-217	Sequence 217, Appl
380	89.5	7.4	176	3	US-09-804-980-50	Sequence 50, Appl	453	76.5	6.4	21	3	US-10-885-039-217	Sequence 217, Appl
381	89.5	7.4	176	4	US-10-620-246-50	Sequence 50, Appl	454	76.5	6.4	164	4	US-10-424-599-221054	Sequence 221054, A
382	89.5	7.4	196	4	US-10-408-765A-2170	Sequence 2170, Appl	455	76.5	6.4	168	3	US-09-902-331-16	Sequence 16, Appl
383	89.5	7.4	1945	6	US-11-097-143-23139	Sequence 23139, A	456	76.5	6.4	360	6	US-11-188-298-1516	Sequence 1516, Appl
384	88.5	7.4	174	3	US-09-902-331-8	Sequence 8, Appl	457	76.5	6.4	1082	4	US-10-437-963-136625	Sequence 136625, A
385	88.5	7.4	194	6	US-11-188-298-6687	Sequence 6687, Appl	458	76.5	6.4	1137	6	US-11-097-143-11301	Sequence 11301, A
386	88.5	7.4	209	4	US-10-425-114-41291	Sequence 41291, A	459	76.5	6.4	1246	6	US-11-097-143-11301	Sequence 11301, A
387	88.5	7.4	209	6	US-11-188-298-11577	Sequence 11577, A	460	76	6.3	268	4	US-10-369-493-21100	Sequence 21100, A
388	88	7.3	87	5	US-10-343-477A-34	Sequence 34, Appl	461	76	6.3	312	4	US-10-146-772-354	Sequence 354, Appl
389	88	7.3	87	4	US-10-425-115-211755	Sequence 211755, A	462	76	6.3	312	4	US-10-241-742-354	Sequence 354, Appl
390	88	7.3	159	3	US-11-188-298-10537	Sequence 10537, A	463	76	6.3	312	4	US-10-440-523-354	Sequence 354, Appl
391	88	7.3	167	3	US-09-903-331-4	Sequence 4, Appl	464	76	6.3	312	4	US-10-440-503-354	Sequence 354, Appl
392	88	7.3	167	4	US-10-437-963-153847	Sequence 153847, A	465	76	6.3	312	4	US-10-461-925-354	Sequence 354, Appl
393	88	7.3	267	3	US-09-985-153-12	Sequence 122, Appl	466	76	6.3	312	4	US-10-424-599-442624	Sequence 442624, A
394	88	7.3	297	3	US-09-985-153-12	Sequence 66, Appl	467	76	6.3	540	6	US-11-188-298-19788	Sequence 19788, A
395	87.5	7.3	168	6	US-11-188-298-11621	Sequence 11621, A	468	76	6.3	1430	6	US-11-097-143-19083	Sequence 19083, A
396	87.5	7.3	1705	6	US-10-029-345A-37	Sequence 37, Appl	469	76	6.3	1435	6	US-10-128-714-1125	Sequence 8125, Appl
397	87.5	7.3	1705	6	US-11-143-984A-37	Sequence 37, Appl	470	75.5	6.3	96	4	US-10-425-115-220451	Sequence 220451, A
398	87	7.2	89	4	US-10-655-799-27	Sequence 27, Appl	471	75.5	6.3	174	4	US-10-454-599-280415	Sequence 280415, A
399	87	7.2	89	4	US-11-110-082-27	Sequence 27, Appl	472	75.5	6.3	402	4	US-10-425-115-266759	Sequence 266759, A
400	87	7.2	150	6	US-11-188-298-15223	Sequence 15223, A	473	75.5	6.3	634	4	US-10-437-963-109507	Sequence 67606, A
401	87	7.2	165	3	US-09-902-331-12	Sequence 12, Appl	474	75.5	6.3	634	4	US-10-425-114-67606	Sequence 67606, A
402	87	7.2	304	6	US-11-188-298-16697	Sequence 16697, A	475	75.5	6.3	816	4	US-10-696-616-14	Sequence 44, Appl
403	86.5	7.2	154	6	US-11-188-298-6570	Sequence 6570, Appl	476	75.5	6.3	965	4	US-10-408-765A-1466	Sequence 1456, Appl
404	86.5	7.1	200	6	US-11-188-298-2116	Sequence 2116, Appl	477	75.5	6.3	1076	4	US-10-101-235A-6	Sequence 6, Appl
405	85.5	7.1	273	4	US-10-108-260A-2625	Sequence 2625, Appl	478	75.5	6.3	1076	4	US-10-902-137-6	Sequence 6, Appl
406	85.5	7.1	490	3	US-09-992-238-7	Sequence 7, Appl	479	75.5	6.3	1101	2	US-08-908-453-12	Sequence 12, Appl
407	85.5	7.1	490	3	US-10-712-615-7	Sequence 14, Appl	480	75.5	6.3	1101	5	US-10-893-315-74	Sequence 74, Appl
408	85	7.1	165	3	US-09-902-331-14	Sequence 14, Appl	481	75.5	6.3	1102	4	US-10-408-765A-1342	Sequence 1342, Appl
409	85	7.1	165	6	US-11-096-568A-4144	Sequence 4144, Appl	482	75.5	6.3	1110	4	US-10-101-235A-4	Sequence 4, Appl
410	85	7.1	165	6	US-11-188-298-13141	Sequence 13141, A	483	75.5	6.3	1110	5	US-10-902-137-4	Sequence 4, Appl
411	85	7.1	165	6	US-11-188-298-20625	Sequence 20625, A	484	75.5	6.3	1504	4	US-10-425-115-351847	Sequence 351847, A
412	85	7.1	181	6	US-11-096-568A-4143	Sequence 4143, Appl	485	75	6.2	146	6	US-11-188-298-14925	Sequence 14925, A
413	84	7.0	183	6	US-11-098-686-40705	Sequence 40705, A	486	75	6.2	184	4	US-10-029-386-34205	Sequence 34205, A
414	83.5	6.9	274	4	US-10-755-889-32	Sequence 32, Appl	487	75	6.2	299	4	US-10-724-972A-4376	Sequence 4326, Appl
415	83.5	6.9	275	3	US-09-925-301-1294	Sequence 1294, Appl	488	75	6.2	417	4	US-10-437-963-153712	Sequence 153712, A
416	83.5	6.9	278	6	US-11-188-298-20907	Sequence 20907, A	489	75	6.2	559	4	US-10-369-493-19251	Sequence 19251, A
417	83	6.9	232	4	US-10-437-963-113293	Sequence 113293, A	490	75	6.2	651	5	US-10-517-939-3268	Sequence 18251, A
418	83	6.9	595	4	US-10-170-385-919	Sequence 319, Appl	491	75	6.2	980	4	US-10-369-493-1406	Sequence 268, Appl
419	82	6.8	198	4	US-10-437-963-114393	Sequence 114393, A	492	75	6.2	980	4	US-10-369-493-1406	Sequence 1406, Appl
420	82	6.8	357	4	US-10-424-599-442626	Sequence 442626, A	493	75	6.2	1041	4	US-10-451-647-32	Sequence 32, Appl
421	82	6.8	1297	6	US-11-097-143-35221	Sequence 25221, A	494	75	6.2	1419	6	US-10-369-493-1935	Sequence 1935, Appl
422	81.5	6.8	164	6	US-11-188-298-17358	Sequence 25221, A	495	75	6.2	1419	6	US-11-097-143-40194	Sequence 40194, A
423	81.5	6.8	166	6	US-11-188-298-2433	Sequence 17358, A	496	74.5	6.2	1306	6	US-10-767-701-55269	Sequence 55269, A
424	81.5	6.8	177	3	US-09-738-626-5179	Sequence 2433, Appl	497	74.5	6.2	206	4	US-10-424-599-197857	Sequence 197857, A
425	80.5	6.7	76	4	US-10-425-115-272042	Sequence 5179, Appl	498	74.5	6.2	226	4	US-10-335-175-79	Sequence 79, Appl
426	80.5	6.7	166	6	US-11-188-298-8797	Sequence 272042, A	499	74.5	6.2	265	6	US-10-237-386-62	Sequence 62, Appl
427	80.5	6.7	287	6	US-11-188-298-4293	Sequence 4293, Appl	500	74.5	6.2	311	4	US-11-170-653-62	Sequence 62, Appl
428	80.5	6.7	495	6	US-11-096-568A-34293	Sequence 34293, A	501	74.5	6.2	344	6	US-10-369-493-14114	Sequence 14114, A
429	80.5	6.7	533	6	US-11-096-568A-34294	Sequence 34294, A	502	74.5	6.2	399	4	US-11-188-298-15207	Sequence 15207, A
430	80.5	6.7	538	6	US-11-096-568A-34292	Sequence 34292, A	503	74.5	6.2	445	4	US-10-369-493-17859	Sequence 17859, A
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432	79.5	6.6	170	4	US-10-425-114-65560	Sequence 197858, A	505	74.5	6.2	686	6	US-10-011-548-4	Sequence 4, Appl
433	79.5	6.6	358	4	US-10-425-115-53049	Sequence 65560, A	506	74.5	6.2	1036	6	US-11-045-004-1391	Sequence 1391, Appl
434	79.5	6.6	595	4	US-10-080-334-247	Sequence 247, Appl	507	74.5	6.2	1251	5	US-10-935-641-25	Sequence 25, Appl
435	79.5	6.6	630	4	US-10-369-493-5044	Sequence 9044, Appl	508	74	6.1	233	5	US-10-835-641-25	Sequence 23, Appl
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438	79.5	6.6	89	6	US-11-188-298-7924	Sequence 7924, Appl	511	74	6.1	407	6	US-11-096-568A-11540	Sequence 11540, A
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514	74	6.1	504	4	US-10-072-012-863	Sequence 863, App	587	72.5	6.0	1102	3	US-09-974-573-1	Sequence 1, Appli
515	74	6.1	548	4	US-10-451-4672-480	Sequence 480, App	588	72.5	6.0	1103	3	US-10-071-900-4	Sequence 4, Appli
516	74	6.1	548	4	US-10-451-4672-480	Sequence 674, App	589	72.5	6.0	1211	3	US-09-969-034-4487	Sequence 4487, Ap
517	74	6.1	548	6	US-11-119-769-3	Sequence 3, Appli	590	72.5	6.0	1211	3	US-10-242-943-14	Sequence 14, Appl
518	74	6.1	1061	4	US-10-425-114-53914	Sequence 53914, A	591	72.5	6.0	2727	6	US-11-097-143-11814	Sequence 11814, A
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521	74	6.1	2092	4	US-10-042-865-79	Sequence 79, Appl	594	72	6.0	210	4	US-10-035-895-2	Sequence 2, Appli
522	74	6.1	2092	4	US-10-408-765A-1967	Sequence 167, Ap	595	72	6.0	215	4	US-10-282-122A-55720	Sequence 55720, A
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524	74	6.1	2383	5	US-10-499-353A-565	Sequence 565, App	597	72	6.0	299	3	US-09-808-602-63	Sequence 62, Appl
525	74	6.1	2429	4	US-10-288-798-8	Sequence 8, Appli	598	72	6.0	329	3	US-09-800-198-52	Sequence 53, Appl
526	74	6.1	2429	4	US-10-377-035-17	Sequence 17, Appl	599	72	6.0	379	4	US-10-029-386-32938	Sequence 32938, A
527	74	6.1	2429	4	US-10-352-892-8	Sequence 8, Appli	600	72	6.0	448	4	US-10-425-114-59560	Sequence 59560, A
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543	73.5	6.1	1102	5	US-10-741-600-895	Sequence 895, App	616	71.5	5.9	725	4	US-10-282-122A-65371	Sequence 65371, A
544	73.5	6.1	1102	5	US-10-741-600-896	Sequence 896, App	617	71.5	5.9	725	5	US-10-282-122A-65746	Sequence 65746, A
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547	73.5	6.1	1388	4	US-10-408-765A-1139	Sequence 1139, Ap	620	71.5	5.9	774	4	US-10-282-122A-43232	Sequence 43232, A
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558	73	6.1	747	5	US-10-784-004-720	Sequence 720, App	631	71	5.9	434	6	US-11-087-099-8234	Sequence 8234, Ap
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565	72.5	6.0	158	4	US-10-425-115-304627	Sequence 304627, A	638	71	5.9	1398	5	US-10-501-035-226	Sequence 226, App
566	72.5	6.0	158	4	US-10-425-115-304633	Sequence 304633, A	639	71	5.9	1429	5	US-10-732-923-8151	Sequence 8151, App
567	72.5	6.0	158	6	US-10-425-115-304634	Sequence 304634, A	640	71	5.9	1444	4	US-10-408-765A-545	Sequence 545, App
568	72.5	6.0	158	6	US-11-172-740-2164	Sequence 2164, Ap	641	71	5.9	1444	5	US-10-732-923-8814	Sequence 8814, Ap
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571	72.5	6.0	321	4	US-10-424-599-243757	Sequence 243757, A	644	71	5.9	1944	5	US-10-479-874A-24	Sequence 24, Appl
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574	72.5	6.0	327	5	US-10-652-928-58	Sequence 58, Appl	647	70.5	5.9	71	4	US-10-356-631-15	Sequence 15, Appl
575	72.5	6.0	327	5	US-10-632-150-58	Sequence 58, Appl	648	70.5	5.9	184	4	US-10-197-666A-28	Sequence 28, Appl
576	72.5	6.0	327	6	US-11-073-485-58	Sequence 58, Appl	649	70.5	5.9	184	4	US-10-024-298A-81	Sequence 81, Appl
577	72.5	6.0	327	6	US-11-073-470-58	Sequence 58, Appl	650	70.5	5.9	184	4	US-10-042-211A-81	Sequence 81, Appl
578	72.5	6.0	327	6	US-11-073-457-58	Sequence 58, Appl	651	70.5	5.9	184	4	US-10-617-217A-81	Sequence 81, Appl
579	72.5	6.0	327	6	US-11-073-460-58	Sequence 58, Appl	652	70.5	5.9	184	4	US-10-024-298A-81	Sequence 81, Appl
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662	70.5	5.9	1213	4	US-10-425-115-212446	Sequence 212446,	735	69	214	4	US-10-411-026-55	Sequence 55, Appl
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664	70.5	5.9	1641	4	US-10-437-963-194325	Sequence 194325,	737	69	214	4	US-10-411-049-55	Sequence 55, Appl
665	70.5	5.9	1737	4	US-10-437-963-195758	Sequence 195758,	738	69	214	4	US-10-410-930-55	Sequence 55, Appl
666	70	5.8	1222	4	US-10-425-115-195885	Sequence 195885,	739	69	214	4	US-10-410-997-55	Sequence 55, Appl
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672	70	5.8	354	3	US-09-876-997-416	Sequence 416, App	745	69	214	4	US-10-410-897-55	Sequence 55, Appl
673	70	5.8	354	3	US-10-415-187-10	Sequence 10, Appl	746	69	214	4	US-10-410-897-55	Sequence 55, Appl
674	70	5.8	354	3	US-10-643-836-116	Sequence 116, App	747	69	214	4	US-10-660-128-9	Sequence 9, Appl
675	70	5.8	359	4	US-10-288-122A-49088	Sequence 49088, A	748	69	224	4	US-10-045-674-587	Sequence 57, App
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678	70	5.8	481	6	US-11-096-568A-14751	Sequence 14751, A	751	69	245	3	US-10-424-599-26309	Sequence 26309,
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680	70	5.8	485	4	US-10-183-687-421	Sequence 421, App	753	69	245	3	US-10-241-742-248	Sequence 248, App
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682	70	5.8	485	4	US-11-036-568A-14749	Sequence 14749, A	755	69	245	3	US-10-440-503-248	Sequence 248, App
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684	70	5.8	722	6	US-11-038-686-10532	Sequence 10532, A	757	69	245	3	US-10-425-115-330485	Sequence 330485,
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689	70	5.8	813	4	US-10-425-115-200019	Sequence 200019, A	762	69	245	3	US-10-450-763-56314	Sequence 56314, A
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696	70	5.8	2432	4	US-10-112-944-359	Sequence 359, App	769	69	245	3	US-10-470-878-35	Sequence 35, Appl
697	70	5.8	2503	4	US-10-342-281-723	Sequence 723, Appl	770	69	245	3	US-10-370-710-35	Sequence 35, Appl
698	70	5.8	2545	4	US-10-042-865-12	Sequence 12, Appl	771	69	245	3	US-10-370-886-35	Sequence 35, Appl
699	70	5.8	196	6	US-11-036-568A-24825	Sequence 24825, A	772	69	245	3	US-10-370-886-35	Sequence 35, Appl
700	70	5.8	204	6	US-11-188-298-8676	Sequence 8676, App	773	69	245	3	US-10-370-886-35	Sequence 35, Appl
701	70	5.8	211	6	US-11-096-568A-24824	Sequence 24824, A	774	69	245	3	US-10-370-886-35	Sequence 35, Appl
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710	70	5.8	466	4	US-10-425-114-46206	Sequence 46206, A	783	69	245	3	US-10-370-886-35	Sequence 35, Appl
711	70	5.8	478	4	US-10-424-599-272789	Sequence 272789, A	784	69	245	3	US-10-370-886-35	Sequence 35, Appl
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713	70	5.8	515	5	US-10-732-923-20912	Sequence 20912, A	786	69	245	3	US-10-370-886-35	Sequence 35, Appl
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715	70	5.8	777	4	US-10-424-599-276806	Sequence 276806, A	788	69	245	3	US-10-370-886-35	Sequence 35, Appl
716	70	5.8	747	5	US-10-784-004-315	Sequence 315, App	789	69	245	3	US-10-370-886-35	Sequence 35, Appl
717	70	5.8	747	5	US-10-784-004-399	Sequence 399, App	790	69	245	3	US-10-370-886-35	Sequence 35, Appl
718	70	5.8	775	4	US-10-784-004-400	Sequence 400, App	791	69	245	3	US-10-370-886-35	Sequence 35, Appl
719	70	5.8	775	4	US-10-227-110-70	Sequence 70, Appl	792	69	245	3	US-10-370-886-35	Sequence 35, Appl
720	70	5.8	817	4	US-10-208-508-70	Sequence 70, Appl	793	69	245	3	US-10-370-886-35	Sequence 35, Appl
721	70	5.8	817	4	US-10-369-493-10312	Sequence 10312, A	794	69	245	3	US-10-370-886-35	Sequence 35, Appl
722	70	5.8	856	4	US-10-437-963-169692	Sequence 169692, A	795	69	245	3	US-10-370-886-35	Sequence 35, Appl
723	70	5.8	1250	4	US-10-156-761-7572	Sequence 7572, App	796	69	245	3	US-10-370-886-35	Sequence 35, Appl
724	70	5.8	1599	4	US-10-437-963-194363	Sequence 194363, A	797	69	245	3	US-10-370-886-35	Sequence 35, Appl
725	70	5.8	2029	4	US-10-087-684-38	Sequence 38, Appl	798	69	245	3	US-10-370-886-35	Sequence 35, Appl
726	70	5.8	2029	4	US-10-218-779-38	Sequence 38, Appl	799	69	245	3	US-10-370-886-35	Sequence 35, Appl
727	70	5.8	2037	4	US-10-087-684-39	Sequence 39, Appl	800	69	245	3	US-10-370-886-35	Sequence 35, Appl
728	70	5.8	2037	4	US-10-218-779-39	Sequence 39, Appl	801	69	245	3	US-10-370-886-35	Sequence 35, Appl
729	70	5.8	2037	6	US-11-097-143-42576	Sequence 42576, A	802	69	245	3	US-10-370-886-35	Sequence 35, Appl
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806	68.5	5.7	502	4	US-10-437-963-142340	Sequence 142340, A	879	68	5.6	1723	6	US-11-019-711-18	Sequence 18, Appl
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808	68.5	5.7	556	4	US-10-425-115-281481	Sequence 281481, A	881	68	5.6	1867	4	US-10-466-753-4	Sequence 4, Appl1
809	68.5	5.7	566	4	US-10-425-114-63164	Sequence 63164, A	882	68	5.6	1929	4	US-10-210-281-58	Sequence 58, Appl1
810	68.5	5.7	590	4	US-10-425-115-320411	Sequence 320411, A	883	68	5.6	1962	4	US-10-084-846A-6	Sequence 6, Appl1
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812	68.5	5.7	605	3	US-09-832-616-2	Sequence 2, Appl1	885	67.5	5.6	157	5	US-10-732-923-21809	Sequence 21809, A
813	68.5	5.7	605	3	US-09-832-496-2	Sequence 2, Appl1	886	67.5	5.6	157	6	US-11-172-740-940	Sequence 940, Appl
814	68.5	5.7	760	6	US-11-079-463-6609	Sequence 6609, Ap	887	67.5	5.6	158	4	US-10-767-701-45529	Sequence 45529, A
815	68.5	5.7	826	5	US-10-805-650-127	Sequence 127, App	888	67.5	5.6	158	4	US-10-425-115-199017	Sequence 199017, A
816	68.5	5.7	860	4	US-10-389-566-2131	Sequence 2131, Ap	889	67.5	5.6	164	4	US-10-097-065-664	Sequence 664, App
817	68.5	5.7	860	6	US-11-087-099-6246	Sequence 6246, Ap	890	67.5	5.6	164	4	US-10-372-876-664	Sequence 664, App
818	68.5	5.7	922	4	US-10-425-115-298579	Sequence 298579, A	891	67.5	5.6	165	4	US-10-097-065-265	Sequence 265, App
819	68.5	5.7	1025	4	US-10-425-115-297741	Sequence 297741, A	892	67.5	5.6	168	6	US-10-372-876-266	Sequence 266, App
820	68.5	5.7	1066	4	US-10-425-115-300671	Sequence 300671, A	893	67.5	5.6	168	6	US-11-188-298-166739	Sequence 18065, A
821	68.5	5.7	1082	4	US-10-425-115-300717	Sequence 300717, A	894	67.5	5.6	234	6	US-11-041-095-25	Sequence 25, Appl1
822	68.5	5.7	1185	3	US-09-819-401-18	Sequence 18, Appl	895	67.5	5.6	253	5	US-10-858-413-141	Sequence 141, Appl
823	68.5	5.7	1185	4	US-10-388-667-18	Sequence 18, Appl	896	67.5	5.6	277	4	US-10-282-122A-63420	Sequence 63420, A
824	68.5	5.7	1232	4	US-10-425-115-299808	Sequence 299808, A	897	67.5	5.6	281	4	US-10-425-115-254066	Sequence 254066, A
825	68.5	5.7	1501	4	US-10-437-963-192875	Sequence 192875, A	898	67.5	5.6	294	4	US-10-425-115-49266	Sequence 166739, A
826	68.5	5.7	4307	4	US-10-369-493-5698	Sequence 5698, Ap	899	67.5	5.6	295	4	US-10-437-963-166739	Sequence 11660, A
827	68.5	5.7	4307	4	US-10-369-493-5699	Sequence 5699, Ap	900	67.5	5.6	299	4	US-10-156-761-11680	Sequence 50, Appl1
828	68.5	5.7	4307	4	US-10-369-493-5700	Sequence 5700, Ap	901	67.5	5.6	368	5	US-10-909-436-50	Sequence 241, App
829	68.5	5.6	134	4	US-10-425-115-255824	Sequence 255824, A	902	67.5	5.6	368	5	US-10-987-454-247	Sequence 247, App
830	68.5	5.6	134	4	US-10-425-115-265503	Sequence 265503, A	903	67.5	5.6	392	5	US-11-087-454-247	Sequence 18174, A
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832	68.5	5.6	214	6	US-11-173-564-1	Sequence 1, Appl1	905	67.5	5.6	497	3	US-09-796-753-116	Sequence 116, App
833	68.5	5.6	237	4	US-10-437-963-161259	Sequence 161259, A	906	67.5	5.6	532	5	US-10-732-923-9798	Sequence 9798, A
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835	68.5	5.6	303	4	US-10-156-761-13814	Sequence 13814, A	908	67.5	5.6	601	4	US-10-051-874-130	Sequence 130, App
836	68.5	5.6	303	6	US-11-188-298-115053	Sequence 15053, A	909	67.5	5.6	609	4	US-10-097-065-237	Sequence 237, App
837	68.5	5.6	337	6	US-11-079-463-9586	Sequence 9586, Ap	910	67.5	5.6	609	4	US-10-372-876-237	Sequence 237, App
838	68.5	5.6	338	4	US-10-032-585-7739	Sequence 7739, Ap	911	67.5	5.6	723	4	US-10-743-884-2	Sequence 2, Appl1
839	68.5	5.6	360	4	US-10-437-963-159126	Sequence 159126, A	912	67.5	5.6	723	4	US-10-282-122A-56053	Sequence 56053, A
840	68.5	5.6	378	6	US-11-172-740-1517	Sequence 1517, Ap	913	67.5	5.6	915	4	US-10-425-115-299807	Sequence 299807, A
841	68.5	5.6	431	4	US-10-437-963-185066	Sequence 185066, A	914	67.5	5.6	921	3	US-09-996-024-2	Sequence 2, Appl1
842	68.5	5.6	449	4	US-10-295-403-6	Sequence 6, Appl1	915	67.5	5.6	921	4	US-10-069-040-2	Sequence 2, Appl1
843	68.5	5.6	449	4	US-10-278-536-186	Sequence 186, App	916	67.5	5.6	921	5	US-10-880-144-2	Sequence 2, Appl1
844	68.5	5.6	449	4	US-10-225-066A-1108	Sequence 1108, Ap	917	67.5	5.6	921	5	US-10-425-115-299570	Sequence 299570, A
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846	68.5	5.6	449	4	US-10-412-6998-12	Sequence 12, Appl1	919	67.5	5.6	1024	4	US-10-425-115-296512	Sequence 296512, A
847	68.5	5.6	449	5	US-10-225-066A-1108	Sequence 1108, Ap	920	67.5	5.6	1032	4	US-10-425-115-297693	Sequence 297693, A
848	68.5	5.6	449	5	US-10-225-066A-1108	Sequence 372, App	921	67.5	5.6	1034	4	US-10-052-648A-31	Sequence 31, Appl1
849	68.5	5.6	449	6	US-11-087-099-3727	Sequence 4277, Ap	922	67.5	5.6	1034	4	US-10-052-648A-32	Sequence 32, Appl1
850	68.5	5.6	453	3	US-09-738-626-4277	Sequence 14, Appl	923	67.5	5.6	1038	4	US-10-423-115-298833	Sequence 298833, A
851	68.5	5.6	475	4	US-09-802-640-14	Sequence 14, Appl	924	67.5	5.6	1038	4	US-10-423-115-297578	Sequence 297578, A
852	68.5	5.6	475	4	US-10-403-902A-14	Sequence 14, Appl	925	67.5	5.6	1054	4	US-10-425-115-297776	Sequence 297776, A
853	68.5	5.6	475	4	US-10-755-889-100	Sequence 100, App	926	67.5	5.6	1056	4	US-10-425-115-298845	Sequence 298845, A
854	68.5	5.6	475	5	US-10-789-378-48	Sequence 48, Appl	927	67.5	5.6	1066	4	US-10-425-115-298691	Sequence 298691, A
855	68.5	5.6	475	5	US-10-741-600-1306	Sequence 1306, Ap	928	67.5	5.6	1082	4	US-10-425-115-297557	Sequence 297557, A
856	68.5	5.6	475	5	US-10-868-577A-44	Sequence 44, Appl	929	67.5	5.6	1082	4	US-10-425-115-297482	Sequence 297482, A
857	68.5	5.6	475	5	US-10-868-577A-65	Sequence 65, Appl	930	67.5	5.6	1082	4	US-10-425-115-297482	Sequence 26411, A
858	68.5	5.6	475	5	US-10-868-549-24	Sequence 24, Appl	931	67.5	5.6	1082	4	US-10-425-115-264121	Sequence 140718, A
859	68.5	5.6	475	5	US-10-745-337-390	Sequence 390, App	932	67.5	5.6	145	6	US-10-437-963-140718	Sequence 13809, A
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862	68.5	5.6	527	4	US-10-108-260A-3984	Sequence 3984, Ap	935	67.5	5.6	158	6	US-11-188-298-1141	Sequence 1141, A
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874	68.5	5.6	1681	4	US-10-037-417-20	Sequence 20, Appl	947	67.5	5.6	214	5	US-10-835-641-24	Sequence 282829, A
875	68.5	5.6	1681	6	US-11-019-711-20	Sequence 20, Appl	948	67.5	5.6	255	4	US-10-424-599-282829	Sequence 282829, A
876	68.5	5.6	1697	4	US-10-037-417-68	Sequence 68, Appl	949	67.5	5.6	255	4	US-10-425-114-55860	Sequence 55860, A
877	68.5	5.6	1697	6	US-11-019-711-68	Sequence 68, Appl	950	67.5	5.6	268	4	US-10-425-115-364918	Sequence 364918, A

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953	67	5.6	337	5	US-10-450-763-30463	Sequence 30463, A	1233	66.5	180	3	US-09-896-923-46	Sequence 46, Appl
954	67	5.6	337	5	US-10-450-763-37937	Sequence 37937, A	1234	66.5	150	4	US-10-223-650-40	Sequence 46, Appl
955	67	5.6	347	3	US-09-950-902-4	Sequence 4, Appl1	1235	66.5	160	5	US-10-839-456-46	Sequence 46, Appl
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957	67	5.6	365	4	US-10-664-421-75	Sequence 75, Appl	1237	66.5	199	4	US-10-472-317-30	Sequence 30, Appl
958	67	5.6	365	5	US-10-941-635-75	Sequence 75, Appl	1238	66.5	222	4	US-10-472-317-31	Sequence 31, Appl
959	67	5.6	372	3	US-09-771-161A-203	Sequence 203, App	1239	66.5	216	4	US-10-425-114-66532	Sequence 6532, A
960	67	5.6	372	3	US-09-932-257A-17	Sequence 17, Appl	1240	66.5	223	4	US-10-472-317-26	Sequence 26, Appl
961	67	5.6	372	4	US-10-394-322A-14	Sequence 14, Appl	1241	66.5	223	4	US-10-424-599-162712	Sequence 162712,
962	67	5.6	396	4	US-10-310-154-548	Sequence 648, App	1242	66.5	226	4	US-10-472-317-27	Sequence 27, Appl
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969	67	5.6	412	4	US-10-167-749-157	Sequence 157, App	1246	66.5	274	5	US-10-450-763-47604	Sequence 47604, A
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1012	67	5.6	412	4	US-10-239-196-14	Sequence 14, Appl	1248	66.5	336	4	US-10-437-963-141333	Sequence 141333,
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1145	67	5.6	412	4	US-10-170-481A-157	Sequence 157, App	1250	66.5	327	3	US-09-789-561-184	Sequence 184, App
1147	67	5.6	412	4	US-10-028-028-157	Sequence 157, App	1251	66.5	347	5	US-10-883-936-184	Sequence 184, App
1152	67	5.6	412	4	US-10-162-521A-157	Sequence 157, App	1252	66.5	347	6	US-11-096-568A-4722	Sequence 4722, App
1163	67	5.6	412	4	US-10-755-889-578	Sequence 578, App	1253	66.5	353	3	US-11-096-568A-4721	Sequence 4721, App
1165	67	5.6	412	5	US-10-918-851-157	Sequence 157, App	1254	66.5	368	5	US-10-987-454-244	Sequence 244, App
1166	67	5.6	412	5	US-10-805-667-157	Sequence 157, App	1255	66.5	382	4	US-10-425-115-223295	Sequence 223295,
1167	67	5.6	412	5	US-10-897-359-157	Sequence 157, App	1256	66.5	384	4	US-10-437-963-203686	Sequence 203686,
1168	67	5.6	412	5	US-10-893-802-157	Sequence 157, App	1257	66.5	404	4	US-10-437-963-102718	Sequence 102718,
1169	67	5.6	412	5	US-10-897-360-157	Sequence 157, App	1258	66.5	426	4	US-10-214-524-27	Sequence 27, Appl
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1187	67	5.6	412	6	US-11-117-161-11	Sequence 11, Appl	1260	66.5	451	5	US-10-851-328-2	Sequence 2, Appl1
1188	67	5.6	412	6	US-11-080-257-11	Sequence 11, Appl	1261	66.5	459	4	US-10-153-668-86	Sequence 86, Appl
1189	67	5.6	465	4	US-10-731-525-12	Sequence 12, Appl	1262	66.5	480	4	US-10-425-115-298516	Sequence 298516,
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1192	67	5.6	511	4	US-10-732-923-1826	Sequence 1826, App	1265	66.5	608	4	US-10-156-761-1131789	Sequence 14030, A
1193	67	5.6	511	4	US-10-437-963-180608	Sequence 180608,	1266	66.5	661	4	US-10-424-559-159656	Sequence 159656,
1194	67	5.6	543	3	US-09-757-041-2	Sequence 2, Appl1	1267	66.5	701	4	US-10-425-115-231543	Sequence 231543,
1195	67	5.6	543	4	US-10-004-378A-35	Sequence 35, Appl	1268	66.5	789	4	US-10-282-122A-61102	Sequence 61102, A
1196	67	5.6	536	5	US-10-741-600-1360	Sequence 1360, App	1269	66.5	820	4	US-10-437-963-140417	Sequence 140417,
1197	67	5.6	536	4	US-10-688-276-8	Sequence 8, Appl1	1270	66.5	956	3	US-09-851-673-4	Sequence 4, Appl1
1198	67	5.6	556	2	US-08-813-323A-1	Sequence 1, Appl1	1271	66.5	956	4	US-10-755-889-490	Sequence 490, App
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1381	66	5	5	992	4	US-10-309-422-18	Sequence 18, Appl
1382	66	5	5	993	4	US-10-309-422-30	Sequence 30, Appl
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1497	65	5.4	180	5	US-10-839-456-44	Sequence 44, Appl
1498	65	5.4	185	5	US-10-739-930-6865	Sequence 6865, Ap
1499	65	5.4	188	4	US-10-424-599-193127	Sequence 193127, A
1500	65	5.4	192	4	US-10-437-963-177085	Sequence 177085, A

Search completed: November 19, 2006, 04:43:23
Job time : 208 secs

OM protein - protein search, using sw model

Run on: November 19, 2006, 04:40:26

Search time 42 Seconds
(without alignments)
453.871 Million cell updates/secPerfect score: 1204
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Scoring table: BLOSUM62

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Database: Published Applications AA New.*

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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

No.	Score	Query Match	Length	ID	Description
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2	208.5	17.3	176	6	US-10-449-902-38165
3	205	17.0	187	7	US-11-289-102-384
4	205	17.0	187	7	US-11-311-974-2
5	189.5	15.7	181	6	US-10-612-783-4411
6	182.5	15.2	173	6	US-10-612-783-4411
7	175.5	14.6	174	6	US-10-449-902-38165
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9	168.5	14.0	173	6	US-10-612-783-4411
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13	158.5	13.2	174	6	US-10-449-902-38165
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31	82	6.8	198	6	US-10-449-902-51241	Sequence 51241, A
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33	81.5	6.8	177	6	US-10-805-394-5179	Sequence 5179, App
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35	80.5	6.7	364	6	US-10-953-349-21890	Sequence 21890, A
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55	76	6.3	437	6	US-10-953-349-20148	Sequence 16307, App1
56	76	6.3	444	6	US-10-953-349-20148	Sequence 20148, A
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63	74.5	6.2	264	7	US-11-330-403-10648	Sequence 84007, A
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74	73.5	6.1	313	7	US-11-056-355B-62717	Sequence 62717, A
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126	70.5	5.9	606	6	US-10-526-324-445	Sequence 445, App
127	70.5	5.9	732	6	US-10-538-228-769	Sequence 769, App
128	70.5	5.9	732	6	US-10-538-228-769	Sequence 47719, A
129	70.5	5.9	792	6	US-11-044-902-47719	Sequence 19605, A
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131	70	5.8	265	7	US-11-056-355B-19604	Sequence 416, App
132	70	5.8	354	7	US-11-197-712-416	Sequence 19603, A
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135	70	5.8	858	7	US-10-507-416A-170	Sequence 71417, A
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139	70	5.8	2451	6	US-10-669-920-908	Sequence 723, App
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176	68	5.6	395	7	US-11-056-355B-103301	Sequence 103301, A
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184	68	5.6	449	6	US-11-056-355B-66742	Sequence 96742, A
185	68	5.6	453	6	US-10-805-194-4277	Sequence 4277, Ap
186	68	5.6	475	7	US-11-254-195-9	Sequence 9, Appl
187	68	5.6	475	7	US-11-090-997-1250	Sequence 1250, Ap
188	68	5.6	527	7	US-11-293-697-9584	Sequence 3984, Ap
189	68	5.6	535	7	US-11-056-355B-45033	Sequence 45033, A
190	68	5.6	571	6	US-10-953-349-11976	Sequence 31976, A
191	68	5.6	640	6	US-11-056-355B-67262	Sequence 67262, A
192	68	5.6	640	6	US-10-953-349-31975	Sequence 31975, A
193	68	5.6	669	6	US-11-056-355B-67261	Sequence 67261, A
194	68	5.6	669	6	US-10-953-349-31974	Sequence 31974, A
195	68	5.6	933	7	US-11-056-355B-67260	Sequence 67260, A
196	68	5.6	933	7	US-11-121-154-178	Sequence 178, App
197	67.5	5.6	306	7	US-10-449-902-41985	Sequence 41985, A
198	67.5	5.6	392	7	US-11-330-403-15666	Sequence 15666, A
199	67.5	5.6	497	7	US-11-330-403-12088	Sequence 12088, A
200	67.5	5.6	260	6	US-11-265-762-116	Sequence 1, Appl
201	67	5.6	312	7	US-10-559-952-1	Sequence 203, App
202	67	5.6	312	7	US-11-121-333-203	Sequence 4875, Ap
203	67	5.6	374	6	US-10-612-783-4575	Sequence 1781, Ap
204	67	5.6	396	6	US-10-374-780A-1781	Sequence 14, Appl
205	67	5.6	474	6	US-10-932-908-14	Sequence 7735, Ap
206	67	5.6	632	7	US-11-330-403-7735	Sequence 4161, Ap
207	67	5.6	804	7	US-11-293-697-1161	Sequence 41303, A
208	67	5.6	983	6	US-11-449-902-11303	Sequence 46978, A
209	67	5.6	991	6	US-10-449-902-46978	Sequence 4, Appl
210	66.5	5.5	232	7	US-11-373-546-4	Sequence 31, Appl
211	66.5	5.5	265	6	US-10-522-295-31	Sequence 16962, A
212	66.5	5.5	265	6	US-10-953-349-18962	Sequence 52950, A
213	66.5	5.5	265	7	US-11-056-355B-18962	Sequence 6452, Ap
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215	66.5	5.5	328	7	US-11-434-137-6452	Sequence 6454, Ap
216	66.5	5.5	328	7	US-11-434-184-6454	Sequence 6454, Ap
217	66.5	5.5	328	7	US-11-434-184-6454	Sequence 6454, Ap
218	66.5	5.5	328	7	US-11-434-199-6452	Sequence 6454, Ap
219	66.5	5.5	328	7	US-11-434-203-6452	Sequence 6454, Ap
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222	66.5	5.5	347	6	US-11-056-355B-52949	Sequence 16960, A
223	66.5	5.5	353	6	US-10-953-349-16960	Sequence 52948, A
224	66.5	5.5	353	6	US-11-056-355B-52948	Sequence 21038, A
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226	66.5	5.5	429	7	US-11-056-355B-102197	Sequence 102197, A
227	66.5	5.5	429	7	US-11-056-355B-113436	Sequence 21037, A
228	66.5	5.5	432	7	US-11-056-355B-102196	Sequence 102196, A
229	66.5	5.5	433	7	US-11-056-355B-113435	Sequence 113435, A
230	66.5	5.5	433	7	US-11-056-355B-113435	Sequence 18540, A
231	66.5	5.5	1492	7	US-11-330-403-18540	Sequence 364, App
232	66.5	5.5	1492	7	US-11-090-997-364	Sequence 965, App
233	66.5	5.5	95	7	US-11-056-355B-965	Sequence 965, App
234	66	5.5	95	7	US-11-056-355B-965	Sequence 28566, A
235	66	5.5	152	7	US-11-056-355B-28566	Sequence 32146, A
236	66	5.5	152	7	US-11-056-355B-32146	Sequence 32145, A
237	66	5.5	186	6	US-10-952-500-60	Sequence 28555, A
238	66	5.5	186	7	US-11-056-355B-28555	Sequence 18331, A
239	66	5.5	186	7	US-11-056-355B-32145	Sequence 18330, A
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243	66	5.5	471	6	US-10-466-376-4	Sequence 12, Appl
244	66	5.5	473	6	US-10-982-908-12	

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247	66	5.5	475	7	US-11-056-355B-42242	Sequence 42242, A	320	64	5.3	237	7	US-11-351-886-1	Sequence 1, Appl1
248	66	5.5	509	7	US-11-056-355B-20614	Sequence 20614, A	321	64	5.3	318	6	US-10-526-324-140	Sequence 140, Ap
249	66	5.5	517	7	US-11-056-355B-20613	Sequence 20613, A	322	64	5.3	354	6	US-10-612-783-4753	Sequence 4753, Ap
250	66	5.5	519	7	US-11-056-355B-20612	Sequence 20612, A	323	64	5.3	397	7	US-11-330-403-3473	Sequence 3473, Ap
251	66	5.5	698	6	US-10-449-902-45205	Sequence 45205, A	324	64	5.3	414	6	US-10-518-470-4	Sequence 4, Appl1
252	66	5.5	710	6	US-10-466-376-2	Sequence 2, Appl1	325	64	5.3	421	7	US-11-330-403-14843	Sequence 14843, A
253	66	5.5	775	6	US-10-571-706-12	Sequence 12, Appl1	326	64	5.3	460	7	US-11-056-355B-17692	Sequence 47692, A
254	66	5.5	775	6	US-10-571-706-14	Sequence 14, Appl1	327	64	5.3	499	7	US-11-056-355B-17691	Sequence 47691, A
255	66	5.5	775	6	US-10-571-706-16	Sequence 16, Appl1	328	64	5.3	567	6	US-10-612-783-6388	Sequence 6388, Ap
256	66	5.5	775	6	US-10-571-706-18	Sequence 18, Appl1	329	64	5.3	570	7	US-11-056-355B-17690	Sequence 47690, A
257	66	5.5	775	6	US-10-571-706-20	Sequence 20, Appl1	330	64	5.3	612	6	US-10-553-928-132	Sequence 192, App
258	66	5.5	775	6	US-10-571-706-22	Sequence 22, Appl1	331	64	5.3	771	7	US-11-330-403-13419	Sequence 12419, A
259	66	5.5	214	7	US-11-156-444-20	Sequence 20, Appl1	332	64	5.3	993	6	US-10-570-909-57	Sequence 57, Appl1
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261	66	5.5	226	7	US-11-056-355B-53345	Sequence 53345, A	334	63.5	5.3	161	6	US-10-953-349-9029	Sequence 9029, Ap
262	66	5.5	279	6	US-10-805-394-3632	Sequence 3632, Ap	335	63.5	5.3	162	7	US-11-056-355B-5304	Sequence 6304, Ap
263	66	5.5	326	6	US-10-449-902-46731	Sequence 274, App	336	63.5	5.3	166	6	US-10-953-349-9028	Sequence 9028, Ap
264	66	5.5	399	6	US-10-449-902-45416	Sequence 46731, A	337	63.5	5.3	193	7	US-11-056-355B-6263	Sequence 6263, Ap
265	66	5.5	402	6	US-10-449-902-56328	Sequence 45416, A	338	63.5	5.3	229	7	US-11-056-355B-100706	Sequence 100706, A
266	66	5.5	402	6	US-10-449-902-56328	Sequence 56328, A	339	63.5	5.3	229	7	US-11-056-355B-111945	Sequence 111945, A
267	66	5.5	402	6	US-10-449-902-56328	Sequence 42754, A	340	63.5	5.3	232	7	US-11-106-762-23	Sequence 23, Appl1
268	66	5.5	421	6	US-10-449-902-42754	Sequence 3, Appl1	341	63.5	5.3	277	7	US-11-291-698A-56	Sequence 56, Appl1
269	66	5.5	450	6	US-10-526-324-269	Sequence 269, Appl1	342	63.5	5.3	292	7	US-11-056-355B-85912	Sequence 85912, A
270	66	5.5	524	7	US-11-293-697-3442	Sequence 3442, Ap	343	63.5	5.3	292	7	US-11-056-355B-40686	Sequence 40686, A
271	66	5.5	611	6	US-10-449-902-37408	Sequence 37408, A	344	63.5	5.3	292	7	US-11-056-355B-42306	Sequence 42306, A
272	66	5.5	1265	6	US-10-528-563-12	Sequence 12, Appl1	345	63.5	5.3	292	7	US-11-056-355B-42306	Sequence 42306, A
273	66	5.5	1265	6	US-10-528-563-12	Sequence 12, Appl1	346	63.5	5.3	292	7	US-11-056-355B-42306	Sequence 42306, A
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275	66	5.5	1265	6	US-10-528-563-12	Sequence 12, Appl1	348	63.5	5.3	292	7	US-11-056-355B-42306	Sequence 42306, A
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278	66	5.5	261	7	US-11-056-355B-55667	Sequence 35560, A	351	63.5	5.3	299	7	US-11-056-355B-41522	Sequence 41522, A
279	66	5.5	277	6	US-10-953-349-35560	Sequence 35560, A	352	63.5	5.3	299	7	US-11-056-355B-42305	Sequence 42305, A
280	66	5.5	277	6	US-10-953-349-35559	Sequence 35559, A	353	63.5	5.3	299	7	US-11-056-355B-42305	Sequence 42305, A
281	66	5.5	306	7	US-11-181-115-47	Sequence 47, Appl1	354	63.5	5.3	299	7	US-11-056-355B-74315	Sequence 74315, A
282	66	5.5	392	7	US-11-174-307B-3414	Sequence 3414, Ap	355	63.5	5.3	299	7	US-11-056-355B-74318	Sequence 74318, A
283	66	5.5	430	7	US-11-174-307B-165	Sequence 165, App	356	63.5	5.3	314	7	US-11-056-355B-72733	Sequence 72733, A
284	66	5.5	446	7	US-11-174-307B-3704	Sequence 3704, Ap	357	63.5	5.3	314	7	US-11-056-355B-40111	Sequence 40111, A
285	66	5.5	546	7	US-11-056-355B-108731	Sequence 97492, A	358	63.5	5.3	314	7	US-11-056-355B-40684	Sequence 40684, A
286	66	5.5	590	6	US-10-669-920-1106	Sequence 108731, A	359	63.5	5.3	314	7	US-11-056-355B-41521	Sequence 41521, A
287	66	5.5	618	6	US-10-669-920-1106	Sequence 106, App	360	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A
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292	66	5.5	1420	7	US-11-283-328-156	Sequence 156, App	365	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A
293	66	5.5	1420	7	US-11-283-328-156	Sequence 156, App	366	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A
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313	66	5.5	1420	7	US-11-283-328-156	Sequence 156, App	386	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A
314	66	5.5	1420	7	US-11-283-328-156	Sequence 156, App	387	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A
315	66	5.5	1420	7	US-11-283-328-156	Sequence 156, App	388	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A
316	66	5.5	1420	7	US-11-283-328-156	Sequence 156, App	389	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A
317	66	5.5	1420	7	US-11-283-328-156	Sequence 156, App	390	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A
318	66	5.5	1420	7	US-11-283-328-156	Sequence 156, App	391	63.5	5.3	314	7	US-11-056-355B-42304	Sequence 42304, A

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393	63	5.2	392	7	US-11-330-403-3445	Sequence 3445, App	466	62.5	5.2	3595	7	US-11-063-439-264	Sequence 264, App
394	63	5.2	394	7	US-11-056-355B-26411	Sequence 26471, A	467	62.5	5.2	3595	7	US-11-063-439-269	Sequence 269, App
395	63	5.2	394	7	US-11-056-355B-30359	Sequence 30359, A	468	62.5	5.2	3599	7	US-11-063-439-771	Sequence 271, App
396	63	5.2	394	7	US-11-056-355B-33949	Sequence 33949, A	469	62.5	5.2	3600	7	US-11-063-439-762	Sequence 262, App
397	63	5.2	394	7	US-11-056-355B-103375	Sequence 103375, A	470	62.5	5.2	3603	7	US-11-063-439-889	Sequence 289, App
398	63	5.2	394	7	US-11-056-355B-114614	Sequence 114614, A	471	62	5.1	192	7	US-11-056-355B-82439	Sequence 82439, A
399	63	5.2	405	6	US-10-449-902-38303	Sequence 38303, A	472	62	5.1	196	7	US-11-056-355B-82438	Sequence 82438, A
400	63	5.2	425	6	US-10-449-902-49808	Sequence 49808, A	473	62	5.1	206	7	US-11-056-355B-82437	Sequence 82437, A
401	63	5.2	484	7	US-11-330-403-4351	Sequence 4351, App	474	62	5.1	253	7	US-11-056-355B-2543	Sequence 2543, App
402	63	5.2	485	7	US-11-293-697-2858	Sequence 2858, App	475	62	5.1	252	7	US-11-056-355B-2543	Sequence 2543, App
403	63	5.2	498	6	US-10-505-928-696	Sequence 696, App	476	62	5.1	271	7	US-11-330-403-8657	Sequence 8657, App
404	63	5.2	530	7	US-11-056-355B-26470	Sequence 26470, App	477	62	5.1	272	7	US-11-056-355B-103393	Sequence 103393, A
405	63	5.2	530	7	US-11-056-355B-30358	Sequence 30358, A	478	62	5.1	272	7	US-11-056-355B-103376	Sequence 103376, A
406	63	5.2	530	7	US-11-056-355B-33948	Sequence 33948, A	479	62	5.1	272	7	US-11-056-355B-115376	Sequence 115376, A
407	63	5.2	530	7	US-11-056-355B-103374	Sequence 103374, A	480	62	5.1	272	7	US-11-056-355B-25377	Sequence 25377, A
408	63	5.2	530	7	US-11-056-355B-114613	Sequence 114613, A	481	62	5.1	284	6	US-10-449-902-8157	Sequence 8157, A
409	63	5.2	545	7	US-11-056-355B-20002	Sequence 20002, A	482	62	5.1	284	6	US-11-056-355B-23692	Sequence 23692, A
410	63	5.2	567	7	US-11-056-355B-26469	Sequence 26469, A	483	62	5.1	284	7	US-11-056-355B-110336	Sequence 110336, A
411	63	5.2	567	7	US-11-056-355B-30357	Sequence 30357, A	484	62	5.1	284	7	US-11-056-355B-115375	Sequence 115375, A
412	63	5.2	567	7	US-11-056-355B-33947	Sequence 33947, A	485	62	5.1	286	7	US-11-056-355B-25376	Sequence 25376, A
413	63	5.2	567	7	US-11-056-355B-103373	Sequence 103373, A	486	62	5.1	300	6	US-10-449-902-26087	Sequence 26087, A
414	63	5.2	567	7	US-11-056-355B-114612	Sequence 114612, A	487	62	5.1	302	7	US-11-056-355B-23891	Sequence 23891, A
415	63	5.2	660	7	US-11-330-403-15209	Sequence 15209, A	488	62	5.1	354	7	US-11-197-712-385	Sequence 385, App
416	63	5.2	666	7	US-11-090-997-740	Sequence 740, App	489	62	5.1	364	6	US-10-612-783-15685	Sequence 15643, A
417	63	5.2	668	7	US-11-056-355B-96810	Sequence 96810, A	490	62	5.1	369	7	US-11-056-355B-15643	Sequence 15643, A
418	63	5.2	686	7	US-11-056-355B-96809	Sequence 96809, A	491	62	5.1	389	7	US-11-056-355B-15642	Sequence 15642, A
419	63	5.2	738	7	US-11-056-355B-96808	Sequence 96808, A	492	62	5.1	419	7	US-11-056-355B-15641	Sequence 15641, A
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421	63	5.2	763	7	US-11-123-692-33	Sequence 33, App1	494	62	5.1	436	6	US-11-330-403-11345	Sequence 11345, A
422	63	5.2	770	7	US-11-123-692-35	Sequence 35, App1	495	62	5.1	449	6	US-10-530-837-12	Sequence 12, App1
423	63	5.2	774	7	US-11-123-692-34	Sequence 34, App1	496	62	5.1	461	7	US-11-330-403-17837	Sequence 17837, A
424	63	5.2	983	6	US-10-484-603-15	Sequence 15, App1	497	62	5.1	512	6	US-10-449-902-80821	Sequence 80821, A
425	63	5.2	1085	7	US-11-242-079-5	Sequence 5, App11	498	62	5.1	519	7	US-11-368-598-66	Sequence 66, App1
426	63	5.2	1614	7	US-11-090-997-1246	Sequence 1246, App	499	62	5.1	535	7	US-11-422-663-18	Sequence 18, App1
427	63	5.2	1670	7	US-11-090-997-1242	Sequence 1242, App	500	62	5.1	535	7	US-11-422-663-18	Sequence 18, App1
428	63	5.2	1683	7	US-11-090-997-1240	Sequence 1240, App	501	62	5.1	553	7	US-11-330-403-1906	Sequence 1906, App
429	63	5.2	1222	7	US-11-330-403-3132	Sequence 3132, App	502	62	5.1	588	7	US-11-330-403-14209	Sequence 14209, A
430	62.5	5.2	161	7	US-11-056-355B-65060	Sequence 65060, A	503	62	5.1	631	6	US-10-449-902-82562	Sequence 82562, A
431	62.5	5.2	184	7	US-11-123-692-80	Sequence 80, App1	504	62	5.1	731	6	US-10-805-394-4854	Sequence 4854, App
432	62.5	5.2	217	7	US-11-056-355B-1970	Sequence 1970, App	505	62	5.1	847	6	US-10-449-902-109530	Sequence 39944, A
433	62.5	5.2	244	6	US-10-511-937-2598	Sequence 2598, App	506	62	5.1	911	6	US-10-449-902-50540	Sequence 50530, A
434	62.5	5.2	277	7	US-11-056-355B-1969	Sequence 1969, App	507	62	5.1	1130	7	US-11-248-556-1	Sequence 1, App1
435	62.5	5.2	290	7	US-11-330-403-4589	Sequence 4589, App	508	62	5.1	1130	7	US-11-191-644-9	Sequence 9, App11
436	62.5	5.2	295	7	US-11-330-403-18254	Sequence 18254, A	509	62	5.1	1130	7	US-11-330-403-891-2	Sequence 2, App11
437	62.5	5.2	296	7	US-11-330-403-16841	Sequence 16841, A	510	62	5.1	1130	7	US-11-330-403-891-2	Sequence 2, App11
438	62.5	5.2	315	7	US-11-056-355B-1968	Sequence 1968, App	511	62	5.1	1130	7	US-11-330-403-891-2	Sequence 2, App11
439	62.5	5.2	333	6	US-11-056-355B-60256	Sequence 60256, A	512	62	5.1	1671	6	US-10-526-324-2	Sequence 2, App11
440	62.5	5.2	333	6	US-10-449-902-36610	Sequence 36610, A	513	62	5.1	1865	7	US-11-247-437-8	Sequence 8, App11
441	62.5	5.2	361	7	US-11-056-355B-60255	Sequence 60255, A	514	62	5.1	2006	7	US-11-191-644-14	Sequence 14, App1
442	62.5	5.2	389	7	US-11-330-403-1375	Sequence 1375, App	515	62	5.1	2031	7	US-11-191-644-14	Sequence 14, App1
443	62.5	5.2	519	7	US-11-330-403-17401	Sequence 17401, A	516	61.5	5.1	36	6	US-10-953-349-12849	Sequence 12849, A
444	62.5	5.2	531	6	US-10-449-902-51994	Sequence 51994, A	517	61.5	5.1	161	6	US-10-449-902-10246	Sequence 30446, A
445	62.5	5.2	531	6	US-10-449-902-56027	Sequence 56027, A	518	61.5	5.1	161	6	US-10-449-902-51940	Sequence 51940, A
446	62.5	5.2	560	6	US-11-332-783-3568	Sequence 3568, App	519	61.5	5.1	171	6	US-10-449-902-16609	Sequence 36609, A
447	62.5	5.2	563	7	US-11-332-783-66	Sequence 66, App1	520	61.5	5.1	171	6	US-10-449-902-10547	Sequence 40547, A
448	62.5	5.2	589	6	US-10-544-180-8	Sequence 8, App11	521	61.5	5.1	173	6	US-10-953-349-3709	Sequence 3709, App
449	62.5	5.2	589	7	US-11-056-355B-83503	Sequence 83503, A	522	61.5	5.1	184	6	US-10-526-324-1487	Sequence 1487, App
450	62.5	5.2	630	7	US-11-056-355B-73292	Sequence 73292, A	523	61.5	5.1	184	7	US-11-123-692-11	Sequence 11, App1
451	62.5	5.2	641	6	US-10-449-902-31519	Sequence 31519, A	524	61.5	5.1	195	6	US-10-953-349-33533	Sequence 33533, A
452	62.5	5.2	641	6	US-10-449-902-41230	Sequence 41230, A	525	61.5	5.1	209	6	US-11-330-403-14279	Sequence 14279, A
453	62.5	5.2	641	6	US-10-449-902-43053	Sequence 43053, A	526	61.5	5.1	221	6	US-10-953-349-3708	Sequence 3708, App
454	62.5	5.2	641	6	US-10-449-902-45026	Sequence 45026, A	527	61.5	5.1	223	7	US-11-365-556-105	Sequence 305, App
455	62.5	5.2	641	6	US-10-449-902-56109	Sequence 56109, A	528	61.5	5.1	268	6	US-10-805-394-4922	Sequence 4922, App
456	62.5	5.2	641	7	US-11-056-355B-73291	Sequence 73291, A	529	61.5	5.1	278	7	US-10-953-349-62014	Sequence 29084, A
457	62.5	5.2	641	7	US-11-056-355B-75635	Sequence 75635, A	530	61.5	5.1	278	7	US-11-056-355B-82919	Sequence 82919, A
458	62.5	5.2	644	6	US-10-449-902-53973	Sequence 53973, A	531	61.5	5.1	289	6	US-10-953-349-33532	Sequence 33532, A
459	62.5	5.2	646	7	US-11-056-355B-73290	Sequence 73290, A	532	61.5	5.1	289	6	US-11-330-403-13761	Sequence 13761, A
460	62.5	5.2	646	7	US-11-056-355B-75634	Sequence 75634, A	533	61.5	5.1	297	6	US-10-449-902-80729	Sequence 50729, A
461	62.5	5.2	655	6	US-10-449-902-44836	Sequence 44836, A	534	61.5	5.1	309	6	US-10-953-349-3707	Sequence 3707, App
462	62.5	5.2	688	6	US-10-374-780A-943	Sequence 943, App	535	61.5	5.1	323	6	US-10-953-349-33531	Sequence 33531, A
463	62.5	5.2	701	7	US-11-056-355B-75633	Sequence 75633, A	536	61.5	5.1	343	6	US-10-449-902-16800	Sequence 36800, A
464	62.5	5.2	1064	6	US-10-700-439-142	Sequence 142, App	537	61.5	5.1	351	6	US-10-953-349-17104	Sequence 17104, A

538	61.5	5.1	351	7	US-11-056-355B-53805	Sequence 53805, A	611	61	5.1	501	6	US-10-953-349-32435	Sequence 32435, A
539	61.5	5.1	361	6	US-10-953-349-17103	Sequence 17103, A	612	61	5.1	501	7	US-11-056-355B-65740	Sequence 65740, A
540	61.5	5.1	361	7	US-11-056-355B-53804	Sequence 53804, A	613	61	5.1	506	7	US-11-433-137-1404	Sequence 1404, A
541	61.5	5.1	369	6	US-10-953-349-21836	Sequence 21836, A	614	61	5.1	506	7	US-11-433-137-1404	Sequence 1404, A
542	61.5	5.1	369	7	US-11-056-355B-59061	Sequence 59061, A	615	61	5.1	506	7	US-11-433-137-1404	Sequence 1404, A
543	61.5	5.1	387	6	US-10-449-902-45662	Sequence 45662, A	616	61	5.1	506	7	US-11-433-137-1404	Sequence 1404, A
544	61.5	5.1	402	6	US-10-449-902-51710	Sequence 51710, A	617	61	5.1	508	6	US-10-953-349-32434	Sequence 32434, A
545	61.5	5.1	410	6	US-10-953-349-21835	Sequence 21835, A	618	61	5.1	508	6	US-11-056-355B-72446	Sequence 72446, A
546	61.5	5.1	410	7	US-11-056-355B-53803	Sequence 53803, A	619	61	5.1	530	6	US-10-953-349-32433	Sequence 32433, A
547	61.5	5.1	410	7	US-11-056-355B-59060	Sequence 59060, A	620	61	5.1	530	7	US-11-056-355B-65738	Sequence 65738, A
548	61.5	5.1	438	6	US-10-953-349-21834	Sequence 21834, A	621	61	5.1	698	6	US-10-449-902-53545	Sequence 53545, A
549	61.5	5.1	438	7	US-11-056-355B-59059	Sequence 59059, A	622	61	5.1	709	7	US-11-056-355B-72446	Sequence 72446, A
550	61.5	5.1	507	6	US-10-805-394-6732	Sequence 6732, A	623	61	5.1	751	7	US-11-327-845-2688	Sequence 2688, A
551	61.5	5.1	561	6	US-10-612-783-6983	Sequence 6983, A	624	61	5.1	778	7	US-11-056-355B-72445	Sequence 72445, A
552	61.5	5.1	569	7	US-11-317-260-22	Sequence 22, A	625	61	5.1	778	7	US-11-056-355B-1102958	Sequence 1102958, A
553	61.5	5.1	569	7	US-11-317-260-22	Sequence 22, A	626	61	5.1	778	7	US-11-056-355B-114197	Sequence 114197, A
554	61.5	5.1	627	6	US-10-449-902-37692	Sequence 37692, A	627	61	5.1	803	7	US-11-056-355B-72444	Sequence 72444, A
555	61.5	5.1	633	6	US-10-516-094-9	Sequence 9, A	628	61	5.1	803	7	US-11-056-355B-102957	Sequence 102957, A
556	61.5	5.1	775	7	US-11-327-195-31	Sequence 31, A	629	61	5.1	803	7	US-11-056-355B-114196	Sequence 114196, A
557	61.5	5.1	775	7	US-11-327-845-30	Sequence 30, A	630	61	5.1	890	7	US-11-056-355B-102956	Sequence 102956, A
558	61.5	5.1	832	6	US-10-449-902-53181	Sequence 53181, A	631	61	5.1	890	7	US-11-056-355B-114195	Sequence 114195, A
559	61.5	5.1	837	7	US-11-327-195-27	Sequence 27, A	632	61	5.1	1003	6	US-10-669-920-853	Sequence 853, A
560	61.5	5.1	837	7	US-11-327-845-27	Sequence 27, A	633	61	5.1	1014	6	US-10-669-920-857	Sequence 857, A
561	61.5	5.1	839	7	US-11-327-195-24	Sequence 24, A	634	61	5.1	1014	6	US-11-313-450-39	Sequence 39, A
562	61.5	5.1	839	7	US-11-327-845-24	Sequence 24, A	635	61	5.1	1020	6	US-10-539-228-110	Sequence 810, A
563	61.5	5.1	844	6	US-10-612-783-6582	Sequence 6582, A	636	61	5.1	1048	6	US-11-056-355B-91165	Sequence 91165, A
564	61.5	5.1	844	7	US-11-327-845-50	Sequence 50, A	637	61	5.1	1221	7	US-11-056-355B-94921	Sequence 94921, A
565	61.5	5.1	857	7	US-11-327-195-26	Sequence 26, A	638	61	5.1	1221	7	US-11-056-355B-91164	Sequence 91164, A
566	61.5	5.1	857	7	US-11-327-845-26	Sequence 26, A	639	61	5.1	1235	7	US-11-056-355B-94920	Sequence 94920, A
567	61.5	5.1	857	7	US-11-327-845-26	Sequence 26, A	640	61	5.1	1235	7	US-11-056-355B-94920	Sequence 94920, A
568	61.5	5.1	859	7	US-11-327-195-23	Sequence 23, A	641	61	5.1	1235	7	US-11-056-355B-91163	Sequence 91163, A
569	61.5	5.1	859	7	US-11-327-845-23	Sequence 23, A	642	61	5.1	1248	7	US-11-056-355B-94919	Sequence 94919, A
570	61.5	5.1	865	7	US-11-327-845-49	Sequence 49, A	643	61	5.1	1248	7	US-10-539-228-807	Sequence 807, A
571	61.5	5.1	865	7	US-10-612-783-7040	Sequence 7040, A	644	61	5.1	2053	6	US-10-539-228-807	Sequence 807, A
572	61.5	5.1	933	6	US-11-330-403-11882	Sequence 11882, A	645	61	5.1	2053	6	US-11-140-4874-772	Sequence 772, A
573	61.5	5.1	1017	6	US-10-449-902-41492	Sequence 41492, A	646	61	5.1	3020	6	US-10-505-928-648	Sequence 648, A
574	61.5	5.1	1017	6	US-10-805-394-4320	Sequence 4320, A	647	60.5	5.0	180	6	US-10-449-902-6669	Sequence 6669, A
575	61.5	5.1	112	6	US-10-449-902-52913	Sequence 52913, A	648	60.5	5.0	205	7	US-11-240-881-99	Sequence 99, A
576	61.5	5.1	178	6	US-10-526-324-1812	Sequence 1812, A	649	60.5	5.0	205	7	US-10-526-324-181	Sequence 181, A
577	61.5	5.1	211	6	US-10-449-902-31579	Sequence 31579, A	650	60.5	5.0	238	7	US-11-414-676-18	Sequence 18, A
578	61.5	5.1	233	7	US-11-211-563-110	Sequence 110, A	651	60.5	5.0	238	7	US-10-953-349-5513	Sequence 5513, A
579	61.5	5.1	234	6	US-10-526-741-22	Sequence 22, A	652	60.5	5.0	318	6	US-10-449-902-10236	Sequence 10236, A
580	61.5	5.1	234	7	US-11-414-676-22	Sequence 22, A	653	60.5	5.0	347	7	US-10-449-902-80776	Sequence 80776, A
581	61.5	5.1	238	6	US-10-526-741-20	Sequence 20, A	654	60.5	5.0	358	6	US-10-953-349-2503	Sequence 2503, A
582	61.5	5.1	238	7	US-11-414-676-20	Sequence 20, A	655	60.5	5.0	384	7	US-11-056-355B-57088	Sequence 57088, A
583	61.5	5.1	239	7	US-11-211-517-56	Sequence 56, A	656	60.5	5.0	391	6	US-10-612-783-6292	Sequence 6292, A
584	61.5	5.1	239	7	US-11-293-697-4028	Sequence 4028, A	657	60.5	5.0	399	6	US-10-612-783-6843	Sequence 6843, A
585	61.5	5.1	257	7	US-11-056-355B-4176	Sequence 4176, A	658	60.5	5.0	400	7	US-11-056-355B-57087	Sequence 57087, A
586	61.5	5.1	257	6	US-10-953-349-12109	Sequence 12109, A	659	60.5	5.0	400	7	US-11-330-403-1143	Sequence 1143, A
587	61.5	5.1	268	7	US-11-330-403-3804	Sequence 3804, A	660	60.5	5.0	420	7	US-11-056-355B-80775	Sequence 80775, A
588	61.5	5.1	275	7	US-11-330-403-3851	Sequence 3851, A	661	60.5	5.0	458	6	US-10-953-349-4502	Sequence 4502, A
589	61.5	5.1	286	6	US-10-953-349-3040	Sequence 3040, A	662	60.5	5.0	462	6	US-10-449-902-53939	Sequence 53939, A
590	61.5	5.1	292	6	US-10-527-788-64	Sequence 64, A	663	60.5	5.0	466	6	US-10-449-902-51633	Sequence 51633, A
591	61.5	5.1	319	6	US-10-449-902-56772	Sequence 56772, A	664	60.5	5.0	466	6	US-10-953-349-2501	Sequence 2501, A
592	61.5	5.1	319	6	US-10-449-902-56772	Sequence 56772, A	665	60.5	5.0	520	7	US-11-056-355B-80774	Sequence 80774, A
593	61.5	5.1	349	6	US-10-449-902-48361	Sequence 48361, A	666	60.5	5.0	524	6	US-10-449-902-46284	Sequence 46284, A
594	61.5	5.1	362	6	US-10-953-349-20340	Sequence 20340, A	667	60.5	5.0	561	7	US-11-339-92-19	Sequence 19, A
595	61.5	5.1	362	7	US-11-056-355B-55302	Sequence 55302, A	668	60.5	5.0	574	6	US-10-953-349-12942	Sequence 12942, A
596	61.5	5.1	381	6	US-10-374-780A-2534	Sequence 2534, A	669	60.5	5.0	581	6	US-10-953-349-12946	Sequence 12946, A
597	61.5	5.1	386	7	US-11-330-403-6784	Sequence 6784, A	670	60.5	5.0	581	7	US-11-330-403-15537	Sequence 15537, A
598	61.5	5.1	400	6	US-10-953-349-30339	Sequence 30339, A	671	60.5	5.0	607	6	US-11-293-697-3683	Sequence 3683, A
599	61.5	5.1	400	7	US-11-056-355B-55301	Sequence 55301, A	672	60.5	5.0	607	6	US-10-449-902-47339	Sequence 47339, A
600	61.5	5.1	440	6	US-11-056-355B-76474	Sequence 76474, A	673	60.5	5.0	619	6	US-10-953-349-12415	Sequence 12415, A
601	61.5	5.1	456	6	US-10-449-902-46566	Sequence 46566, A	674	60.5	5.0	621	6	US-10-953-349-12414	Sequence 12414, A
602	61.5	5.1	464	6	US-10-953-349-20695	Sequence 20695, A	675	60.5	5.0	627	7	US-11-056-355B-11361	Sequence 11361, A
603	61.5	5.1	464	7	US-11-056-355B-59100	Sequence 59100, A	676	60.5	5.0	632	7	US-11-245-628-6	Sequence 6, A
604	61.5	5.1	468	6	US-10-449-902-40789	Sequence 40789, A	677	60.5	5.0	636	6	US-10-953-349-12941	Sequence 12941, A
605	61.5	5.1	472	7	US-11-056-355B-76473	Sequence 76473, A	678	60.5	5.0	636	7	US-11-056-355B-113960	Sequence 113960, A
606	61.5	5.1	473	6	US-10-805-394-4489	Sequence 4489, A	679	60.5	5.0	638	6	US-10-953-349-12940	Sequence 12940, A
607	61.5	5.1	475	6	US-11-056-355B-59094	Sequence 59094, A	680	60.5	5.0	664	7	US-11-056-355B-13959	Sequence 13959, A
608	61.5	5.1	475	6	US-10-953-349-20693	Sequence 20693, A	681	60.5	5.0	794	7	US-11-330-403-14530	Sequence 14530, A
609	61.5	5.1	492	6	US-10-953-349-20693	Sequence 20693, A	682	60.5	5.0	808	7	US-11-056-355B-73416	Sequence 73416, A
610	61.5	5.1	492	7	US-11-056-355B-59098	Sequence 59098, A	683	60.5	5.0	832	7	US-11-056-355B-73415	Sequence 73415, A

684	60.5	870	7	US-11-330-403-3355	Sequence 3355, Ap	757	60	5.0	853	6	US-10-449-902-55477	Sequence 55477, A
685	60.5	883	7	US-11-056-355B-73414	Sequence 73414, A	758	60	5.0	856	6	US-10-449-902-46587	Sequence 46587, A
686	60.5	966	7	US-11-056-355B-73264	Sequence 73264, A	759	60	5.0	876	7	US-11-056-355B-70131	Sequence 70131, A
687	60.5	976	7	US-11-056-355B-73263	Sequence 73263, A	760	60	5.0	923	7	US-11-056-355B-75609	Sequence 75609, A
688	60.5	978	7	US-11-056-355B-73262	Sequence 73262, A	761	60	5.0	927	6	US-10-449-902-13750	Sequence 43750, A
689	60.5	985	7	US-11-330-403-15349	Sequence 15349, A	762	60	5.0	928	6	US-10-449-902-11155	Sequence 41155, A
690	60.5	992	7	US-11-090-997-11440	Sequence 11440, Ap	763	60	5.0	929	7	US-11-056-355B-75607	Sequence 75607, A
691	60.5	992	7	US-11-090-997-11444	Sequence 11444, Ap	764	60	5.0	976	7	US-11-056-355B-75607	Sequence 75607, A
692	60.5	1226	7	US-11-221-332-88	Sequence 88, Appl	765	60	5.0	977	7	US-11-330-403-12162	Sequence 12162, A
693	60.5	1337	7	US-11-165-586-53	Sequence 53, Appl	766	60	5.0	998	6	US-10-524-505-3	Sequence 3, Appl1
694	60.5	1483	7	US-11-090-997-11338	Sequence 11338, Ap	767	60	5.0	1012	7	US-11-330-403-1902	Sequence 1902, Ap
695	60.5	1485	7	US-11-090-997-11330	Sequence 11330, Ap	768	60	5.0	1012	7	US-11-330-403-11736	Sequence 11736, A
696	60.5	1862	7	US-11-090-997-11342	Sequence 11342, Ap	769	60	5.0	1383	7	US-11-330-403-14374	Sequence 14374, A
697	60.5	1863	7	US-11-090-997-11334	Sequence 11334, Ap	770	60	5.0	1431	6	US-10-833-833-127	Sequence 127, App
698	60.5	1863	7	US-11-090-997-11336	Sequence 11336, Ap	771	60	5.0	1444	6	US-10-833-833-130	Sequence 130, App
699	60.5	1914	7	US-11-090-997-11332	Sequence 11332, Ap	772	60	5.0	1912	6	US-10-511-937-1561	Sequence 2561, Ap
700	60.5	88	6	US-10-471-571A-1880	Sequence 1880, Ap	773	60	5.0	1935	6	US-10-480-962-6	Sequence 6, Appl1
701	60	116	6	US-10-449-902-48835	Sequence 48835, A	774	60	5.0	3195	6	US-11-330-403-18988	Sequence 18988, A
702	60	146	7	US-11-056-355B-2238	Sequence 2238, Ap	775	59.5	4.9	146	6	US-10-953-349-19945	Sequence 19945, A
703	60	162	7	US-11-056-355B-2237	Sequence 2237, Ap	776	59.5	4.9	177	6	US-10-953-349-19945	Sequence 19945, A
704	60	184	7	US-11-123-692-98	Sequence 98, Appl	777	59.5	4.9	182	7	US-11-384-041-111	Sequence 11, Appl1
705	60	188	6	US-10-449-902-55626	Sequence 55626, A	778	59.5	4.9	184	6	US-10-953-349-19944	Sequence 39944, A
706	60	206	7	US-11-056-355B-2236	Sequence 2236, Ap	779	59.5	4.9	184	6	US-10-532-740-22	Sequence 22, Appl
707	60	210	7	US-11-330-403-1037	Sequence 1037, Ap	780	59.5	4.9	184	7	US-11-123-692-73	Sequence 73, Appl
708	60	213	6	US-11-822-231-3	Sequence 3, Appl1	781	59.5	4.9	184	7	US-11-123-692-81	Sequence 81, Appl
709	60	213	7	US-11-174-287-6	Sequence 6, Appl1	782	59.5	4.9	184	7	US-11-123-692-83	Sequence 83, Appl
710	60	213	7	US-11-256-060-16	Sequence 16, Appl	783	59.5	4.9	184	7	US-11-123-692-105	Sequence 105, App
711	60	219	6	US-11-274-452-1	Sequence 1, Appl1	784	59.5	4.9	194	6	US-10-612-783-6814	Sequence 6814, Ap
712	60	236	7	US-11-375-221-20	Sequence 20, Appl	785	59.5	4.9	213	6	US-10-515-429-73	Sequence 73, Appl
713	60	239	7	US-11-449-902-29373	Sequence 29373, A	786	59.5	4.9	213	6	US-10-449-902-16500	Sequence 46500, A
714	60	239	7	US-11-211-917-64	Sequence 64, Appl	787	59.5	4.9	214	7	US-11-221-902-1	Sequence 1, Appl1
715	60	239	7	US-11-211-917-102	Sequence 102, Appl	788	59.5	4.9	214	7	US-11-221-902-3	Sequence 3, Appl1
716	60	244	6	US-10-953-349-24781	Sequence 24781, A	789	59.5	4.9	214	7	US-11-197-665-26	Sequence 26, Appl
717	60	244	6	US-10-953-349-24908	Sequence 24908, A	790	59.5	4.9	214	7	US-11-197-665-30	Sequence 30, Appl
718	60	244	6	US-11-056-355B-52415	Sequence 52415, A	791	59.5	4.9	236	6	US-10-574-398-885	Sequence 285, App
719	60	282	6	US-10-953-349-24780	Sequence 24780, A	792	59.5	4.9	239	6	US-10-449-902-30433	Sequence 30433, A
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721	60	295	7	US-11-274-452-7	Sequence 7, Appl1	794	59.5	4.9	242	7	US-11-293-697-1119	Sequence 4119, Ap
722	60	302	6	US-10-953-349-26566	Sequence 26566, A	795	59.5	4.9	251	7	US-11-330-403-8512	Sequence 8512, Ap
723	60	314	6	US-10-526-324-1970	Sequence 1970, Ap	796	59.5	4.9	262	7	US-11-450-517-35	Sequence 35, Appl
724	60	323	7	US-11-056-355B-1952	Sequence 1952, Ap	797	59.5	4.9	262	7	US-11-366-965-550	Sequence 350, App
725	60	341	7	US-11-174-307B-4240	Sequence 4240, Ap	798	59.5	4.9	269	7	US-11-056-355B-59304	Sequence 59304, A
726	60	351	7	US-11-056-355B-18536	Sequence 18536, A	799	59.5	4.9	277	6	US-10-953-349-15933	Sequence 15933, A
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728	60	356	7	US-11-056-355B-18535	Sequence 18535, Ap	801	59.5	4.9	293	7	US-11-330-403-1997	Sequence 3997, Ap
729	60	372	6	US-10-449-902-54716	Sequence 54716, A	802	59.5	4.9	293	7	US-11-330-403-10067	Sequence 10067, A
730	60	378	6	US-10-953-349-17164	Sequence 17164, A	803	59.5	4.9	294	7	US-11-056-355B-34015	Sequence 34015, A
731	60	378	7	US-11-056-355B-52971	Sequence 52971, A	804	59.5	4.9	294	7	US-11-056-355B-34015	Sequence 34015, A
732	60	379	6	US-10-953-349-17163	Sequence 17163, A	805	59.5	4.9	294	7	US-11-056-355B-34015	Sequence 34015, A
733	60	379	7	US-11-056-355B-52970	Sequence 52970, A	806	59.5	4.9	294	7	US-11-056-355B-74050	Sequence 74050, A
734	60	389	6	US-10-953-349-24907	Sequence 24907, A	807	59.5	4.9	294	7	US-11-056-355B-74050	Sequence 74050, A
735	60	389	7	US-11-056-355B-52414	Sequence 52414, A	808	59.5	4.9	301	6	US-10-612-783-5516	Sequence 5516, Ap
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738	60	414	7	US-11-056-355B-1950	Sequence 1950, Ap	811	59.5	4.9	317	7	US-11-293-697-4449	Sequence 3449, Ap
739	60	420	6	US-10-449-902-4659	Sequence 4659, Ap	812	59.5	4.9	321	7	US-11-330-403-1151	Sequence 5151, Ap
740	60	454	6	US-10-449-902-52106	Sequence 52106, A	813	59.5	4.9	323	7	US-11-056-355B-36521	Sequence 36521, A
741	60	522	6	US-10-449-902-53507	Sequence 53507, A	814	59.5	4.9	323	7	US-11-056-355B-74049	Sequence 74049, A
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743	60	559	7	US-11-056-355B-100423	Sequence 100423, A	816	59.5	4.9	339	7	US-11-056-355B-4908	Sequence 4908, Ap
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745	60	568	7	US-11-330-403-335	Sequence 335, App	818	59.5	4.9	346	7	US-11-056-355B-34014	Sequence 34014, A
746	60	570	7	US-11-056-355B-100422	Sequence 100422, A	819	59.5	4.9	346	7	US-11-056-355B-57089	Sequence 57089, A
747	60	570	7	US-11-056-355B-111661	Sequence 111661, A	820	59.5	4.9	373	6	US-10-953-349-15951	Sequence 15951, A
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752	60	695	7	US-11-330-403-7874	Sequence 7874, Ap	825	59.5	4.9	411	6	US-10-530-187-102	Sequence 207, App
753	60	720	6	US-11-503-928-383	Sequence 383, App	826	59.5	4.9	411	6	US-11-389-432-106	Sequence 106, App
754	60	728	7	US-11-315-034-12	Sequence 12, Appl	827	59.5	4.9	412	6	US-10-449-902-54921	Sequence 54921, A
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756	60	853	6	US-10-449-902-51854	Sequence 51854, A	829	59.5	4.9	424	6	US-10-953-349-23252	Sequence 23252, A

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832	59.5	4.9	447	6	US-10-449-902-54266	Sequence 54266, A	907	59	4.9	317	6	US-10-449-902-53306	Sequence 53306, A
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840	59.5	4.9	524	7	US-11-376-673-54	Sequence 54, Appl	913	59	4.9	377	6	US-10-449-902-17974	Sequence 17974, A
841	59.5	4.9	531	7	US-11-056-355B-4907	Sequence 4907, Ap	914	59	4.9	378	6	US-10-449-902-87979	Sequence 28769, A
842	59.5	4.9	541	7	US-11-056-355B-4906	Sequence 4906, Ap	915	59	4.9	385	7	US-11-283-329-80	Sequence 80, Appl
843	59.5	4.9	550	6	US-10-449-902-55281	Sequence 55281, A	916	59	4.9	397	7	US-11-090-997-1784	Sequence 1784, Ap
844	59.5	4.9	553	6	US-10-449-902-55899	Sequence 50899, A	917	59	4.9	423	6	US-10-449-902-59129	Sequence 29129, A
845	59.5	4.9	579	6	US-10-953-349-23000	Sequence 23000, A	918	59	4.9	426	7	US-11-330-403-3589	Sequence 3589, Ap
846	59.5	4.9	581	7	US-11-189-279-17	Sequence 18, Appl	919	59	4.9	450	6	US-10-953-349-17110	Sequence 17170, A
847	59.5	4.9	601	7	US-11-189-279-18	Sequence 17, Appl	920	59	4.9	460	7	US-11-404-939-113	Sequence 513, Appl
848	59.5	4.9	618	7	US-11-056-355B-88769	Sequence 88769, A	921	59	4.9	474	6	US-10-982-008-16	Sequence 16, Appl
849	59.5	4.9	618	7	US-11-056-355B-92525	Sequence 92525, A	922	59	4.9	474	7	US-11-361-871-24	Sequence 24, Appl
850	59.5	4.9	634	7	US-11-189-279-16	Sequence 16, Appl	923	59	4.9	500	7	US-11-197-712-466	Sequence 466, Appl
851	59.5	4.9	638	7	US-11-056-355B-88768	Sequence 88768, A	924	59	4.9	506	7	US-11-174-307B-4286	Sequence 4286, Appl
852	59.5	4.9	638	7	US-11-056-355B-92524	Sequence 92524, A	925	59	4.9	530	7	US-11-335-927-4	Sequence 4, Appl1
853	59.5	4.9	641	7	US-11-056-355B-70656	Sequence 70656, A	926	59	4.9	555	7	US-11-056-355B-91527	Sequence 91527, A
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855	59.5	4.9	661	6	US-10-539-093-2	Sequence 2, Appl1	928	59	4.9	688	7	US-11-329-010-2	Sequence 2, Appl1
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857	59.5	4.9	706	7	US-11-056-355B-88159	Sequence 88159, A	930	59	4.9	735	6	US-10-449-902-44112	Sequence 44112, A
858	59.5	4.9	722	7	US-11-056-355B-88767	Sequence 88767, A	931	59	4.9	743	7	US-11-330-403-1199	Sequence 1199, Ap
859	59.5	4.9	722	7	US-11-056-355B-92523	Sequence 92523, A	932	59	4.9	753	7	US-11-366-965-495	Sequence 495, Appl
860	59.5	4.9	745	7	US-11-056-355B-70654	Sequence 70654, A	933	59	4.9	756	7	US-11-090-997-154	Sequence 154, Appl
861	59.5	4.9	824	7	US-11-330-403-6042	Sequence 6042, Ap	934	59	4.9	759	7	US-11-393-271-26	Sequence 26, Appl
862	59.5	4.9	834	7	US-11-330-403-9867	Sequence 9867, Ap	935	59	4.9	769	7	US-11-389-932-90	Sequence 90, Appl
863	59.5	4.9	851	7	US-11-251-208-43	Sequence 43, Appl	936	59	4.9	800	7	US-11-434-137-1606	Sequence 1606, Ap
864	59.5	4.9	990	7	US-11-330-403-2845	Sequence 2845, Ap	937	59	4.9	800	7	US-11-434-137-8586	Sequence 8586, Ap
865	59.5	4.9	1023	7	US-11-330-403-5093	Sequence 5093, Ap	938	59	4.9	800	7	US-11-434-184-1606	Sequence 1606, Ap
866	59.5	4.9	1086	7	US-11-325-276-10	Sequence 10, Appl	939	59	4.9	800	7	US-11-434-184-8586	Sequence 8586, Ap
867	59.5	4.9	1922	7	US-11-339-733-48	Sequence 48, Appl	940	59	4.9	800	7	US-11-434-199-1606	Sequence 1606, Ap
868	59.5	4.9	1922	7	US-11-107-336-104	Sequence 104, Appl	941	59	4.9	800	7	US-11-434-199-8586	Sequence 8586, Ap
869	59.5	4.9	1924	6	US-10-512-386-56	Sequence 56, Appl	942	59	4.9	800	7	US-11-434-203-1606	Sequence 1606, Ap
870	59.5	4.9	1924	6	US-10-997-086-2	Sequence 2, Appl1	943	59	4.9	802	7	US-11-330-403-2678	Sequence 2678, Ap
871	59	4.9	58	6	US-10-449-902-55134	Sequence 35134, A	944	59	4.9	802	7	US-11-330-403-2678	Sequence 2678, Ap
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873	59	4.9	167	7	US-11-440-093-15	Sequence 15, Appl	946	59	4.9	803	7	US-11-056-355B-29257	Sequence 29257, A
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876	59	4.9	195	7	US-11-056-355B-105620	Sequence 105620, A	949	59	4.9	803	7	US-11-056-355B-102579	Sequence 102579, A
877	59	4.9	195	7	US-11-056-355B-116859	Sequence 116859, A	950	59	4.9	805	6	US-10-953-349-5562	Sequence 5562, Ap
878	59	4.9	196	7	US-11-056-355B-24321	Sequence 24321, A	951	59	4.9	805	7	US-11-056-355B-13846	Sequence 13846, A
879	59	4.9	233	7	US-11-295-006-17	Sequence 17, Appl	952	59	4.9	805	7	US-11-056-355B-102578	Sequence 102578, A
880	59	4.9	234	6	US-10-511-436A-92	Sequence 92, Appl	953	59	4.9	805	7	US-11-056-355B-13847	Sequence 13847, A
881	59	4.9	234	6	US-10-560-299-2	Sequence 2, Appl1	954	59	4.9	805	7	US-11-056-355B-13847	Sequence 13847, A
882	59	4.9	239	7	US-11-211-917-40	Sequence 40, Appl1	955	59	4.9	805	7	US-11-056-355B-13847	Sequence 13847, A
883	59	4.9	239	7	US-11-412-335-8	Sequence 8, Appl1	956	59	4.9	805	7	US-11-056-355B-13847	Sequence 13847, A
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886	59	4.9	285	7	US-11-434-184-80	Sequence 90, Appl	959	59	4.9	805	7	US-11-056-355B-13847	Sequence 13847, A
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888	59	4.9	285	7	US-11-434-203-50	Sequence 90, Appl	961	59	4.9	805	7	US-11-056-355B-13847	Sequence 13847, A
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892	59	4.9	300	7	US-11-272-528-4	Sequence 4, Appl1	965	59	4.9	805	7	US-11-056-355B-13847	Sequence 13847, A
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900	59	4.9	306	7	US-11-330-403-16681	Sequence 16681, A	973	59	4.9	805	7	US-11-056-355B-13847	Sequence 13847, A
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979	58.5	4.9	132	7	US-11-434-203-9586	Sequence 9586, Ap	1052	58.5	4.9	400	7	US-11-056-355B-33001	Sequence 33001, A
980	58.5	4.9	143	7	US-11-434-137-794	Sequence 794, App	1053	58.5	4.9	400	7	US-11-056-355B-103923	Sequence 103923, A
981	58.5	4.9	143	7	US-11-434-184-794	Sequence 794, App	1054	58.5	4.9	400	7	US-11-056-355B-115162	Sequence 115162, A
982	58.5	4.9	143	7	US-11-434-199-794	Sequence 794, App	1055	58.5	4.9	426	7	US-11-226-554-140	Sequence 140, App
983	58.5	4.9	143	7	US-11-434-203-794	Sequence 794, App	1056	58.5	4.9	426	7	US-11-248-718-140	Sequence 140, App
984	58.5	4.9	144	7	US-11-293-697-2843	Sequence 2843, App	1057	58.5	4.9	440	6	US-10-449-902-28996	Sequence 28996, A
985	58.5	4.9	184	7	US-11-123-692-53	Sequence 53, Appl	1058	58.5	4.9	440	6	US-10-449-902-54191	Sequence 54191, A
986	58.5	4.9	184	7	US-11-123-692-59	Sequence 59, Appl	1059	58.5	4.9	440	6	US-10-953-349-9513	Sequence 9513, Ap
987	58.5	4.9	184	7	US-11-123-692-62	Sequence 62, Appl	1060	58.5	4.9	444	7	US-11-056-355B-28344	Sequence 28344, A
988	58.5	4.9	184	7	US-11-123-692-65	Sequence 65, Appl	1061	58.5	4.9	444	7	US-11-056-355B-31934	Sequence 31934, A
989	58.5	4.9	184	7	US-11-123-692-67	Sequence 67, Appl	1062	58.5	4.9	444	7	US-11-056-355B-33000	Sequence 33000, A
990	58.5	4.9	184	7	US-11-123-692-68	Sequence 68, Appl	1063	58.5	4.9	444	7	US-11-056-355B-103922	Sequence 103922, A
991	58.5	4.9	184	7	US-11-123-692-74	Sequence 74, Appl	1064	58.5	4.9	444	7	US-11-056-355B-115161	Sequence 115161, A
992	58.5	4.9	184	7	US-11-123-692-76	Sequence 76, Appl	1065	58.5	4.9	466	7	US-11-073-360-240	Sequence 240, App
993	58.5	4.9	184	7	US-11-123-692-77	Sequence 77, Appl	1066	58.5	4.9	466	7	US-10-374-780A-1843	Sequence 1843, Ap
994	58.5	4.9	184	7	US-11-123-692-78	Sequence 78, Appl	1067	58.5	4.9	479	6	US-10-574-398-265	Sequence 265, App
995	58.5	4.9	184	7	US-11-123-692-85	Sequence 85, Appl	1068	58.5	4.9	485	6	US-10-449-902-50321	Sequence 50321, A
996	58.5	4.9	184	7	US-11-123-692-86	Sequence 86, Appl	1069	58.5	4.9	514	7	US-11-123-692-2	Sequence 2, Appl
997	58.5	4.9	184	7	US-11-123-692-107	Sequence 107, App	1070	58.5	4.9	514	7	US-11-123-692-4	Sequence 4, Appl
998	58.5	4.9	184	7	US-11-123-692-108	Sequence 108, App	1071	58.5	4.9	537	6	US-10-953-349-24962	Sequence 24962, A
999	58.5	4.9	213	6	US-10-515-429-74	Sequence 74, Appl	1072	58.5	4.9	539	7	US-11-123-692-36	Sequence 36, Appl
1000	58.5	4.9	214	7	US-11-106-762-9	Sequence 9, Appl	1073	58.5	4.9	539	7	US-11-123-692-37	Sequence 37, Appl
1001	58.5	4.9	216	6	US-10-526-324-1641	Sequence 1641, Ap	1074	58.5	4.9	539	7	US-11-123-692-42	Sequence 42, Appl
1002	58.5	4.9	237	7	US-11-106-762-8	Sequence 8, Appl	1075	58.5	4.9	539	7	US-11-123-692-43	Sequence 43, Appl
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1004	58.5	4.9	241	7	US-11-056-355B-55090	Sequence 55090, A	1077	58.5	4.9	539	7	US-11-123-692-45	Sequence 45, Appl
1005	58.5	4.9	248	7	US-11-056-355B-60440	Sequence 60440, A	1078	58.5	4.9	539	7	US-11-123-692-46	Sequence 46, Appl
1006	58.5	4.9	251	6	US-10-953-349-38140	Sequence 38140, A	1079	58.5	4.9	539	7	US-11-123-692-47	Sequence 47, Appl
1007	58.5	4.9	261	7	US-11-056-355B-101409	Sequence 101409, A	1080	58.5	4.9	539	7	US-11-123-692-48	Sequence 48, Appl
1008	58.5	4.9	261	7	US-11-056-355B-112648	Sequence 112648, A	1081	58.5	4.9	539	7	US-11-123-692-49	Sequence 49, Appl
1009	58.5	4.9	263	7	US-11-056-355B-101408	Sequence 101408, A	1082	58.5	4.9	552	6	US-10-612-783-5440	Sequence 5440, Ap
1010	58.5	4.9	263	7	US-11-056-355B-112647	Sequence 112647, A	1083	58.5	4.9	559	6	US-10-419-902-43073	Sequence 43073, A
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1013	58.5	4.9	279	6	US-10-449-902-41789	Sequence 41789, A	1086	58.5	4.9	617	7	US-11-056-355B-443359	Sequence 443359, A
1014	58.5	4.9	280	6	US-10-953-349-38139	Sequence 38139, A	1087	58.5	4.9	617	7	US-11-056-355B-46959	Sequence 46959, A
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1016	58.5	4.9	292	7	US-11-330-403-13977	Sequence 13977, A	1089	58.5	4.9	628	7	US-11-056-355B-46958	Sequence 46958, A
1017	58.5	4.9	299	7	US-11-265-762-144	Sequence 144, App	1090	58.5	4.9	628	7	US-11-448-387-18	Sequence 18, Appl
1018	58.5	4.9	300	6	US-10-700-439-101	Sequence 101, App	1091	58.5	4.9	630	7	US-11-056-355B-443357	Sequence 443357, A
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1021	58.5	4.9	300	7	US-11-274-634-15	Sequence 15, Appl	1096	58.5	4.9	643	7	US-11-056-355B-92531	Sequence 92531, A
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1023	58.5	4.9	302	7	US-11-330-403-5435	Sequence 5435, Ap	1098	58.5	4.9	664	6	US-11-293-697-3042	Sequence 3042, Ap
1024	58.5	4.9	305	7	US-11-056-355B-60257	Sequence 60257, A	1099	58.5	4.9	764	6	US-10-449-902-46298	Sequence 46298, A
1025	58.5	4.9	314	1	US-09-981-845-1	Sequence 1, Appl	1100	58.5	4.9	951	6	US-10-449-902-51860	Sequence 51860, A
1026	58.5	4.9	314	7	US-11-043-842-552	Sequence 552, App	1101	58.5	4.9	1309	7	US-11-358-419-82	Sequence 82, Appl
1027	58.5	4.9	320	7	US-11-056-355B-98352	Sequence 98352, A	1102	58.5	4.9	3853	6	US-10-502-394-51	Sequence 51, Appl
1028	58.5	4.9	320	7	US-11-056-355B-109591	Sequence 109591, A	1103	58	4.8	110	6	US-10-526-324-1201	Sequence 1201, Ap
1029	58.5	4.9	320	6	US-10-511-937-2511	Sequence 2511, Ap	1104	58	4.8	131	6	US-10-449-902-39081	Sequence 39081, A
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1034	58.5	4.9	370	7	US-11-330-403-16334	Sequence 16334, A	1109	58	4.8	179	6	US-10-953-349-30553	Sequence 30553, A
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1042	58.5	4.9	395	6	US-10-953-349-9515	Sequence 9515, Ap	1117	58	4.8	221	6	US-10-953-349-9516	Sequence 9516, Ap
1043	58.5	4.9	395	6	US-11-056-355B-28346	Sequence 28346, A	1118	58	4.8	229	7	US-11-211-917-37	Sequence 37, Appl
1044	58.5	4.9	395	7	US-11-056-355B-31936	Sequence 31936, A	1119	58	4.8	248	7	US-11-056-355B-80380	Sequence 80382, A
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1048	58.5	4.9	397	7	US-11-056-355B-115163	Sequence 115163, A	1123	58	4.8	253	7	US-11-056-355B-115377	Sequence 115377, A
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1127	58	4.8	275	6	US-10-530-798-23	Sequence 23, Appl	1200	57.5	4.8	232	7	US-11-327-546-8	Sequence 8, Appl
1128	58	4.8	295	6	US-10-449-902-48737	Sequence 48737, A	1201	57.5	4.8	243	6	US-10-523-834-265	Sequence 265, App
1129	58	4.8	300	6	US-10-449-902-50737	Sequence 50737, A	1202	57.5	4.8	243	6	US-10-523-834-265	Sequence 390, App
1130	58	4.8	306	7	US-11-056-355B-4335	Sequence 4335, Ap	1203	57.5	4.8	244	6	US-10-953-349-6992	Sequence 26992, A
1131	58	4.8	308	7	US-11-056-355B-43583	Sequence 43583, A	1204	57.5	4.8	245	7	US-11-056-355B-85824	Sequence 85824, A
1132	58	4.8	309	7	US-11-056-355B-22706	Sequence 22706, A	1205	57.5	4.8	246	6	US-10-953-349-1594	Sequence 1594, Ap
1133	58	4.8	309	7	US-11-056-355B-104176	Sequence 104176, A	1206	57.5	4.8	264	7	US-11-056-355B-42727	Sequence 42727, A
1134	58	4.8	309	7	US-11-056-355B-115415	Sequence 115415, A	1207	57.5	4.8	264	7	US-11-056-355B-85823	Sequence 85823, A
1135	58	4.8	314	7	US-11-056-355B-4334	Sequence 4334, Ap	1208	57.5	4.8	277	6	US-10-449-902-46798	Sequence 46798, A
1136	58	4.8	318	7	US-11-293-697-4677	Sequence 4677, Ap	1209	57.5	4.8	283	7	US-10-953-349-1593	Sequence 1593, Ap
1137	58	4.8	324	6	US-10-449-902-51801	Sequence 51801, A	1210	57.5	4.8	283	7	US-11-056-355B-4794	Sequence 4794, Ap
1138	58	4.8	328	7	US-11-056-355B-22707	Sequence 22707, A	1211	57.5	4.8	297	7	US-11-330-403-5102	Sequence 5102, A
1139	58	4.8	328	7	US-11-056-355B-104175	Sequence 104175, A	1212	57.5	4.8	298	7	US-11-330-403-462	Sequence 462, App
1140	58	4.8	328	7	US-11-056-355B-115414	Sequence 115414, A	1213	57.5	4.8	302	6	US-10-953-349-8891	Sequence 8891, Ap
1141	58	4.8	349	7	US-11-056-355B-89734	Sequence 89734, A	1214	57.5	4.8	306	6	US-10-669-920-53	Sequence 93, Appl
1142	58	4.8	349	7	US-11-056-355B-93489	Sequence 93489, A	1215	57.5	4.8	306	7	US-11-330-403-16136	Sequence 16136, A
1143	58	4.8	358	7	US-11-056-355B-22706	Sequence 22706, A	1216	57.5	4.8	335	6	US-10-511-937-2465	Sequence 2465, Ap
1144	58	4.8	366	7	US-11-056-355B-72465	Sequence 72465, A	1217	57.5	4.8	335	6	US-10-953-349-1592	Sequence 1592, Ap
1145	58	4.8	366	7	US-11-056-355B-72473	Sequence 72473, A	1218	57.5	4.8	335	6	US-10-953-349-22013	Sequence 22013, A
1146	58	4.8	367	7	US-11-056-355B-89733	Sequence 89733, A	1219	57.5	4.8	335	6	US-10-374-780A-22348	Sequence 22348, Ap
1147	58	4.8	367	7	US-11-056-355B-93489	Sequence 93489, A	1220	57.5	4.8	335	7	US-11-056-355B-42735	Sequence 42735, A
1148	58	4.8	382	7	US-11-056-355B-89732	Sequence 89732, A	1221	57.5	4.8	343	6	US-10-953-349-3502	Sequence 3502, Ap
1149	58	4.8	382	7	US-11-056-355B-93488	Sequence 93488, A	1222	57.5	4.8	347	6	US-10-953-349-5105	Sequence 5105, A
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1151	58	4.8	386	7	US-11-056-355B-115413	Sequence 115413, A	1224	57.5	4.8	347	7	US-11-056-355B-82659	Sequence 82659, A
1152	58	4.8	410	6	US-10-953-349-264	Sequence 264, App	1225	57.5	4.8	351	6	US-10-953-349-3501	Sequence 3501, Ap
1153	58	4.8	413	6	US-10-953-349-263	Sequence 263, App	1226	57.5	4.8	352	7	US-11-056-355B-80670	Sequence 80670, A
1154	58	4.8	424	6	US-10-953-349-3739	Sequence 3739, Ap	1227	57.5	4.8	360	6	US-10-449-902-51447	Sequence 51447, A
1155	58	4.8	432	6	US-10-953-349-262	Sequence 262, App	1228	57.5	4.8	363	7	US-11-330-403-16719	Sequence 16719, A
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1165	58	4.8	599	6	US-10-449-902-49534	Sequence 49534, A	1238	57.5	4.8	389	7	US-11-293-697-97014	Sequence 3014, Ap
1166	58	4.8	636	7	US-11-330-403-5946	Sequence 5946, Ap	1239	57.5	4.8	395	6	US-10-449-902-43813	Sequence 43813, A
1167	58	4.8	671	6	US-10-449-902-45202	Sequence 45202, A	1240	57.5	4.8	396	7	US-10-449-902-10434	Sequence 10434, A
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1170	58	4.8	759	7	US-11-056-355B-106652	Sequence 106652, A	1243	57.5	4.8	410	6	US-10-449-902-37465	Sequence 37465, A
1171	58	4.8	759	7	US-11-056-355B-118091	Sequence 118091, A	1244	57.5	4.8	410	6	US-10-568-741-78	Sequence 78, Appl
1172	58	4.8	789	6	US-10-502-394-18	Sequence 18, Appl	1245	57.5	4.8	410	6	US-10-569-022-32	Sequence 32, Appl
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1175	58	4.8	882	7	US-11-056-355B-118090	Sequence 118090, A	1248	57.5	4.8	428	7	US-11-056-355B-49370	Sequence 49370, A
1176	58	4.8	885	7	US-11-056-355B-106850	Sequence 106850, A	1249	57.5	4.8	428	7	US-11-056-355B-83205	Sequence 83205, A
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1178	58	4.8	941	6	US-10-449-902-47478	Sequence 47478, A	1251	57.5	4.8	433	6	US-10-953-349-10433	Sequence 10433, A
1179	58	4.8	1049	6	US-10-449-902-41588	Sequence 41588, A	1252	57.5	4.8	433	7	US-11-056-355B-49369	Sequence 49369, A
1180	58	4.8	1130	6	US-10-526-324-311	Sequence 311, App	1253	57.5	4.8	434	6	US-10-953-349-10432	Sequence 10432, A
1181	58	4.8	1146	7	US-11-274-081-3	Sequence 3, Appl	1254	57.5	4.8	434	6	US-11-056-355B-49368	Sequence 49368, A
1182	58	4.8	1241	6	US-10-570-909-53	Sequence 63, Appl	1255	57.5	4.8	438	6	US-10-953-349-22012	Sequence 22012, A
1183	58	4.8	1639	6	US-11-343-271-27	Sequence 27, Appl	1256	57.5	4.8	438	6	US-10-743-891A-6	Sequence 6, Appl
1184	58	4.8	1971	6	US-10-534-043-2	Sequence 2, Appl	1257	57.5	4.8	438	6	US-10-743-891A-11	Sequence 11, Appl
1185	57.5	4.8	184	7	US-11-123-692-51	Sequence 61, Appl	1258	57.5	4.8	438	6	US-10-743-891A-49	Sequence 49, Appl
1186	57.5	4.8	184	7	US-11-123-692-64	Sequence 64, Appl	1259	57.5	4.8	438	6	US-10-743-891A-51	Sequence 51, Appl
1187	57.5	4.8	184	7	US-11-123-692-66	Sequence 66, Appl	1260	57.5	4.8	438	6	US-10-743-891A-51	Sequence 51, Appl
1188	57.5	4.8	184	7	US-11-123-692-72	Sequence 72, Appl	1261	57.5	4.8	438	6	US-10-743-891A-11	Sequence 11, Appl
1189	57.5	4.8	184	7	US-11-123-692-82	Sequence 82, Appl	1262	57.5	4.8	438	6	US-10-743-891A-11	Sequence 11, Appl
1190	57.5	4.8	191	6	US-10-449-902-7963	Sequence 7963, A	1263	57.5	4.8	438	6	US-10-743-891A-49	Sequence 49, Appl
1191	57.5	4.8	192	6	US-10-449-902-12558	Sequence 42558, A	1264	57.5	4.8	438	6	US-10-743-891A-51	Sequence 51, Appl
1192	57.5	4.8	192	6	US-10-544-059-4	Sequence 4, Appl	1265	57.5	4.8	438	6	US-10-743-891A-51	Sequence 51, Appl
1193	57.5	4.8	203	6	US-10-953-349-6993	Sequence 26993, A	1266	57.5	4.8	438	6	US-11-056-355B-85203	Sequence 85203, A
1194	57.5	4.8	203	7	US-11-330-403-8633	Sequence 8633, Ap	1267	57.5	4.8	438	6	US-11-368-246-54	Sequence 54, Appl
1195	57.5	4.8	206	7	US-11-056-355B-21629	Sequence 21629, A	1268	57.5	4.8	438	6	US-11-368-246-58	Sequence 58, Appl
1196	57.5	4.8	212	6	US-10-953-349-12527	Sequence 12527, A	1269	57.5	4.8	438	6	US-11-056-355B-4697	Sequence 4697, A
1197	57.5	4.8	212	7	US-11-056-355B-66815	Sequence 66815, A	1270	57.5	4.8	438	6	US-11-056-355B-97583	Sequence 97583, A
1198	57.5	4.8	219	7	US-11-342-353-7	Sequence 7, Appl	1271	57.5	4.8	438	6	US-11-056-355B-108822	Sequence 108822, A

1272	57.5	4.8	472	7	US-11-330-403-1277	Sequence 1277, Ap	1345	57.5	4.8	737	7	US-11-056-355B-90491	Sequence 90491, A
1273	57.5	4.8	473	7	US-11-056-355B-73034	Sequence 73034, A	1346	57.5	4.8	737	7	US-11-056-355B-92447	Sequence 92447, A
1274	57.5	4.8	476	7	US-11-056-355B-80669	Sequence 80669, A	1347	57.5	4.8	736	6	US-10-612-783-5979	Sequence 5979, Ap
1275	57.5	4.8	480	7	US-11-056-355B-73033	Sequence 73033, A	1348	57.5	4.8	737	7	US-11-310-403-6396	Sequence 6396, Ap
1276	57.5	4.8	485	7	US-11-056-355B-4445	Sequence 4445, A	1349	57.5	4.8	800	6	US-10-612-783-6988	Sequence 6988, Ap
1277	57.5	4.8	486	7	US-11-056-355B-13936	Sequence 13936, A	1350	57.5	4.8	801	7	US-11-448-552-1	Sequence 1, Appl1
1278	57.5	4.8	487	6	US-10-743-891A-21	Sequence 21, Appl1	1351	57.5	4.8	807	7	US-11-293-697-2725	Sequence 2725, Ap
1279	57.5	4.8	489	7	US-11-056-355B-89978	Sequence 89978, A	1352	57.5	4.8	878	7	US-11-434-137-1912	Sequence 1912, Ap
1280	57.5	4.8	489	7	US-11-056-355B-93734	Sequence 93734, A	1353	57.5	4.8	878	7	US-11-434-184-1912	Sequence 1912, Ap
1281	57.5	4.8	492	6	US-10-953-349-22011	Sequence 22011, A	1354	57.5	4.8	878	7	US-11-434-199-1912	Sequence 1912, Ap
1282	57.5	4.8	494	7	US-11-056-355B-43696	Sequence 43696, A	1355	57.5	4.8	878	7	US-11-434-203-1912	Sequence 1912, Ap
1283	57.5	4.8	494	7	US-11-056-355B-89977	Sequence 89977, A	1356	57.5	4.8	981	6	US-10-449-902-50831	Sequence 50831, A
1284	57.5	4.8	494	7	US-11-056-355B-93733	Sequence 93733, A	1357	57.5	4.8	981	7	US-11-090-997-1680	Sequence 1680, Ap
1285	57.5	4.8	509	6	US-10-449-902-35618	Sequence 35618, A	1358	57.5	4.8	991	6	US-10-743-891A-27	Sequence 27, Appl1
1286	57.5	4.8	509	7	US-11-056-355B-4444	Sequence 4444, A	1359	57.5	4.8	1000	6	US-10-743-891A-25	Sequence 25, Appl1
1287	57.5	4.8	509	7	US-11-056-355B-13935	Sequence 13935, A	1360	57.5	4.8	1147	6	US-10-669-920-722	Sequence 722, Appl1
1288	57.5	4.8	541	7	US-11-366-965-80	Sequence 80, Appl1	1361	57.5	4.8	1166	6	US-10-743-891A-31	Sequence 31, Appl1
1289	57.5	4.8	552	6	US-10-953-349-4293	Sequence 4293, Ap	1362	57.5	4.8	1205	6	US-10-743-891A-29	Sequence 29, Appl1
1290	57.5	4.8	552	7	US-11-056-355B-23115	Sequence 23115, A	1363	57.5	4.8	1264	7	US-11-289-102-206	Sequence 206, Appl1
1291	57.5	4.8	552	7	US-11-056-355B-40069	Sequence 40069, A	1364	57.5	4.8	1279	6	US-10-449-902-53956	Sequence 53956, A
1292	57.5	4.8	552	7	US-11-056-355B-83950	Sequence 83950, A	1365	57.5	4.8	1356	6	US-10-480-962-16	Sequence 16, Appl1
1293	57.5	4.8	552	7	US-11-056-355B-105719	Sequence 105719, A	1366	57.5	4.8	1676	7	US-11-318-227-102	Sequence 102, Appl1
1294	57.5	4.8	552	7	US-11-056-355B-116958	Sequence 116958, A	1367	57.5	4.8	3332	7	US-11-063-439-273	Sequence 273, Appl1
1295	57.5	4.8	554	6	US-10-743-891A-17	Sequence 17, Appl1	1368	57.5	4.8	3697	7	US-11-063-439-288	Sequence 288, Appl1
1296	57.5	4.8	567	7	US-11-293-697-4177	Sequence 4177, Ap	1369	57.5	4.8	3710	7	US-11-063-439-270	Sequence 270, Appl1
1297	57.5	4.8	573	7	US-11-056-355B-82668	Sequence 82668, A	1370	57.5	4.8	3719	7	US-11-063-439-263	Sequence 263, Appl1
1298	57.5	4.8	575	6	US-10-953-349-9104	Sequence 9104, Ap	1371	57.5	4.8	3729	7	US-11-063-439-274	Sequence 274, Appl1
1299	57.5	4.8	575	7	US-11-056-355B-45749	Sequence 45749, A	1372	57.5	4.8	3729	7	US-11-063-439-283	Sequence 283, Appl1
1300	57.5	4.8	576	7	US-11-056-355B-4443	Sequence 4443, A	1373	57.5	4.8	3742	7	US-11-063-439-1283	Sequence 1283, Appl1
1301	57.5	4.8	576	7	US-11-056-355B-13934	Sequence 13934, A	1374	57.5	4.7	76	6	US-10-953-349-12850	Sequence 12850, A
1302	57.5	4.8	577	7	US-11-056-355B-90493	Sequence 90493, A	1375	57.5	4.7	107	6	US-10-449-902-37790	Sequence 37790, A
1303	57.5	4.8	577	7	US-11-056-355B-94249	Sequence 94249, A	1376	57.5	4.7	152	7	US-11-394-760-9	Sequence 9, Appl1
1304	57.5	4.8	578	6	US-10-953-349-4292	Sequence 4292, Ap	1377	57.5	4.7	188	7	US-11-366-965-604	Sequence 604, Appl1
1305	57.5	4.8	578	7	US-11-056-355B-40068	Sequence 40068, A	1378	57.5	4.7	181	7	US-11-301-383-4	Sequence 4, Appl1
1306	57.5	4.8	579	6	US-10-449-902-54147	Sequence 54147, A	1379	57.5	4.7	207	6	US-10-553-520-101	Sequence 101, Appl1
1307	57.5	4.8	579	7	US-11-056-355B-23114	Sequence 23114, A	1380	57.5	4.7	214	7	US-11-238-035-19	Sequence 19, Appl1
1308	57.5	4.8	579	7	US-11-056-355B-80668	Sequence 80668, A	1381	57.5	4.7	226	7	US-11-254-182-40	Sequence 40, Appl1
1309	57.5	4.8	586	6	US-10-953-349-9103	Sequence 9103, Ap	1382	57.5	4.7	225	7	US-11-056-355B-8071	Sequence 8071, Ap
1310	57.5	4.8	586	7	US-11-056-355B-45748	Sequence 45748, A	1383	57.5	4.7	226	7	US-11-056-355B-112649	Sequence 112649, A
1311	57.5	4.8	589	7	US-11-056-355B-90492	Sequence 90492, A	1384	57.5	4.7	226	7	US-11-056-355B-112649	Sequence 112649, A
1312	57.5	4.8	589	7	US-11-056-355B-94248	Sequence 94248, A	1385	57.5	4.7	228	7	US-11-056-355B-75993	Sequence 75993, A
1313	57.5	4.8	590	7	US-11-056-355B-116957	Sequence 116957, A	1386	57.5	4.7	229	7	US-11-211-917-8	Sequence 8, Appl1
1314	57.5	4.8	595	7	US-11-056-355B-82667	Sequence 82667, A	1387	57.5	4.7	229	7	US-11-211-917-16	Sequence 16, Appl1
1315	57.5	4.8	600	6	US-10-743-891A-23	Sequence 23, Appl1	1388	57.5	4.7	229	7	US-11-211-917-80	Sequence 80, Appl1
1316	57.5	4.8	600	6	US-10-743-891A-33	Sequence 33, Appl1	1389	57.5	4.7	221	6	US-10-449-902-41809	Sequence 41809, A
1317	57.5	4.8	600	6	US-10-743-891A-36	Sequence 36, Appl1	1390	57.5	4.7	232	6	US-10-953-349-8892	Sequence 8892, Appl1
1318	57.5	4.8	600	6	US-10-743-891A-38	Sequence 38, Appl1	1391	57.5	4.7	253	6	US-10-953-349-8892	Sequence 8892, Appl1
1319	57.5	4.8	600	6	US-10-743-891A-47	Sequence 47, Appl1	1392	57.5	4.7	255	6	US-10-449-902-30295	Sequence 30295, A
1320	57.5	4.8	600	6	US-11-056-355B-105717	Sequence 105717, A	1393	57.5	4.7	255	6	US-10-449-902-32106	Sequence 32106, A
1321	57.5	4.8	600	7	US-11-056-355B-116956	Sequence 116956, A	1394	57.5	4.7	255	6	US-10-449-902-51136	Sequence 51136, A
1322	57.5	4.8	604	6	US-10-669-920-55	Sequence 55, Appl1	1395	57.5	4.7	255	6	US-10-449-902-51136	Sequence 51136, A
1323	57.5	4.8	626	6	US-10-471-571A-3852	Sequence 3852, A	1396	57.5	4.7	255	6	US-10-449-902-53608	Sequence 53608, A
1324	57.5	4.8	630	6	US-10-449-902-46243	Sequence 46243, A	1397	57.5	4.7	256	6	US-10-449-902-53608	Sequence 53608, A
1325	57.5	4.8	643	7	US-11-056-355B-30502	Sequence 30502, A	1398	57.5	4.7	256	6	US-10-449-902-53608	Sequence 53608, A
1326	57.5	4.8	643	7	US-11-056-355B-34092	Sequence 34092, A	1399	57.5	4.7	256	6	US-10-449-902-53608	Sequence 53608, A
1327	57.5	4.8	643	7	US-11-056-355B-105581	Sequence 105581, A	1400	57.5	4.7	256	6	US-10-449-902-53608	Sequence 53608, A
1328	57.5	4.8	643	7	US-11-056-355B-105581	Sequence 105581, A	1401	57.5	4.7	256	6	US-10-449-902-53608	Sequence 53608, A
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1331	57.5	4.8	681	6	US-11-090-997-1682	Sequence 1682, Ap	1404	57.5	4.7	256	6	US-10-449-902-53608	Sequence 53608, A
1332	57.5	4.8	692	6	US-10-370-959-76	Sequence 76, Appl1	1405	57.5	4.7	256	6	US-10-449-902-53608	Sequence 53608, A
1333	57.5	4.8	692	6	US-10-743-891A-19	Sequence 19, Appl1	1406	57.5	4.7	256	6	US-10-449-902-53608	Sequence 53608, A
1334	57.5	4.8	700	6	US-10-505-928-416	Sequence 416, Appl1	1407	57.5	4.7	256	6	US-10-449-902-53608	Sequence 53608, A
1335	57.5	4.8	720	7	US-11-056-355B-30501	Sequence 30501, A	1408	57.5	4.7	318	6	US-10-953-349-32912	Sequence 32912, A
1336	57.5	4.8	720	7	US-11-056-355B-34091	Sequence 34091, A	1409	57.5	4.7	319	7	US-11-056-355B-9092	Sequence 9092, Appl1
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1338	57.5	4.8	720	7	US-11-056-355B-116819	Sequence 116819, A	1411	57.5	4.7	334	7	US-11-350-043-2	Sequence 2, Appl1
1339	57.5	4.8	730	7	US-11-056-355B-30500	Sequence 30500, A	1412	57.5	4.7	334	7	US-11-350-043-2	Sequence 2, Appl1
1340	57.5	4.8	730	7	US-11-056-355B-34090	Sequence 34090, A	1413	57.5	4.7	334	7	US-11-056-355B-16096	Sequence 16096, A
1341	57.5	4.8	730	7	US-11-056-355B-105579	Sequence 105579, A	1414	57.5	4.7	334	7	US-11-056-355B-16096	Sequence 16096, A
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1343	57.5	4.8	735	6	US-10-449-902-47447	Sequence 47447, A	1416	57.5	4.7	339	7	US-11-412-973-3	Sequence 3, Appl1
1344	57.5	4.8	735	6	US-10-449-902-54126	Sequence 54126, A	1419	57.5	4.7	378	6	US-10-449-902-48664	Sequence 48664, A

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